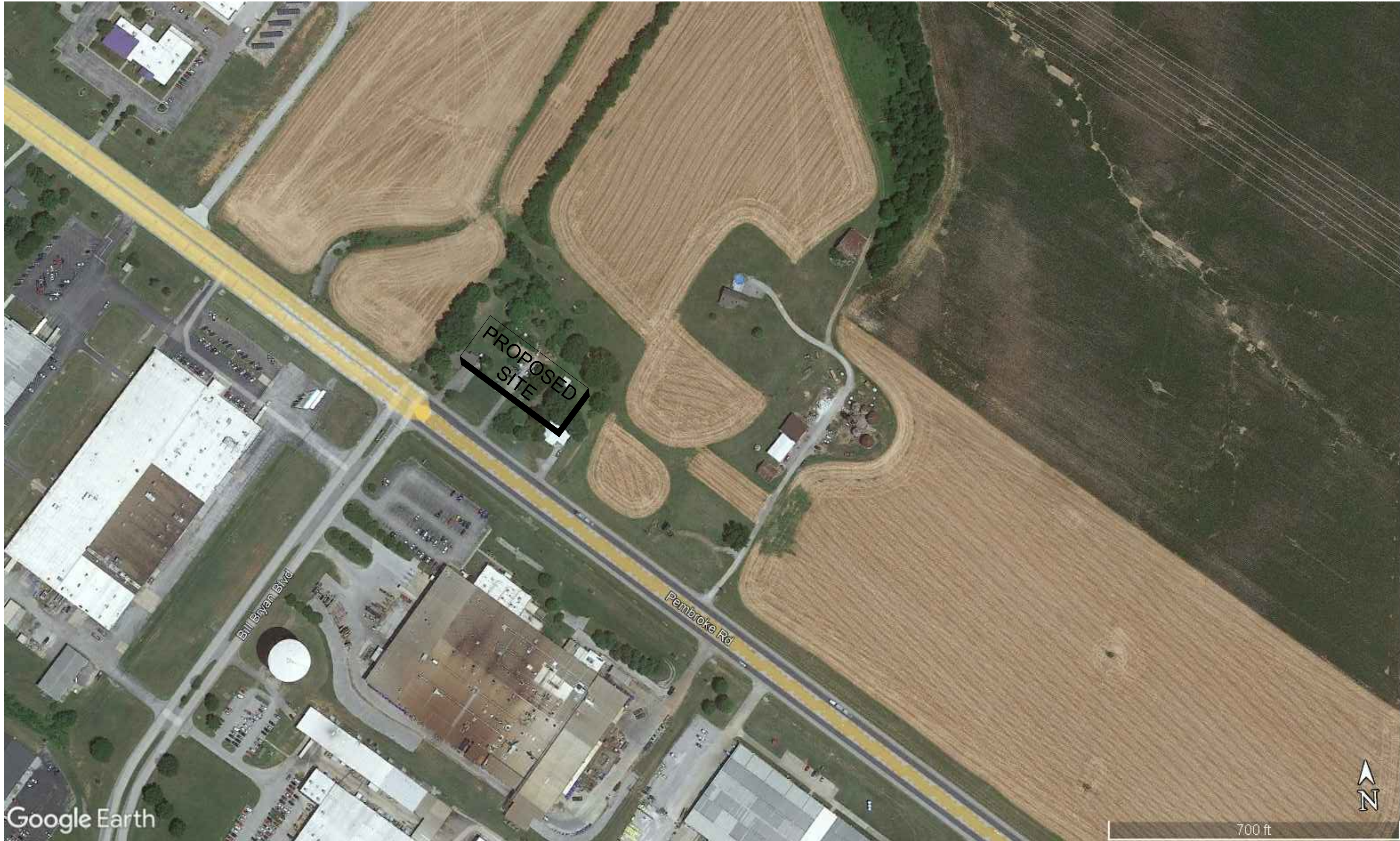




CONSTRUCTION PLANS FOR:
FiveStar
NEW BUILDING CONSTRUCTION
3050 PEMBROKE ROAD
HOPKINSVILLE, KY 42240

May 29, 2024

CERTIFICATE OF OWNERSHIP
I (WE) DO HEREBY CERTIFY THAT I AM (WE ARE) THE ONLY OWNER(S) OF THE
PROPERTY SHOWN HEREON, AND DO ADOPT THIS AS MY (OUR) FINAL
DEVELOPMENT PLAN FOR THE PROPERTY.

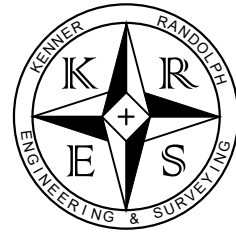
DATE _____

OWNER _____

OWNER _____



CIVIL ENGINEER:
KENNER RANDOLPH
ENGINEERING & SURVEYING
150 SOUTH BREATHITT STREET
RUSSELLVILLE, KY 42276
270-717-1131



INDEX:

C1.0	EXISTING CONDITIONS
C1.1	EXISTING WATERSHED MAP
C1.2	PROPOSED WATERSHED MAP
C2.0	PROPOSED SITE PLAN
C2.1	EROSION CONTROL PLAN
C2.2	PROPOSED GRADING PLAN
C2.3	ENLARGED GRADING PLAN
C2.4-C2.5	TURN LANE PLANS
C2.6	PROPOSED LANDSCAPING PLAN
C2.7	FORCE MAIN PLAN & PROFILE
C3.0	DETAILS
C3.1	DETAILS
C4.0	RIGHT TURN LANE CROSS SECTIONS

---	BOUNDARY LINE THIS SURVEY
---	APPROXIMATE ADJOINER OR R-O-W LINES
---	EXISTING SETBACK LINES OR EASEMENTS
---	EXISTING ROADWAY AS LABELED
---	EXISTING FENCE
---	EXISTING WATERLINE
---	EXISTING SANITARY SEWER FORCE MAIN
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING PRIMARY OVERHEAD ELECTRIC
---	EXISTING POWER POLE
---	EXISTING GAS LINE
---	EXISTING STORM SEWER
---	EXISTING DITCH CENTERLINE
---	EXISTING STORM INLET
---	EXISTING SPOT ELEVATION
---	EXISTING CONTOUR LINE
---	PROPOSED CONTOUR LINE
---	PROPOSED SPOT ELEVATION
---	PROPOSED LIMITS OF DISTURBANCE
---	PROPOSED DITCH CENTERLINE
---	PROPOSED SANITARY SEWER FORCE MAIN
---	PROPOSED GAS LINE
---	PROPOSED UNDERGROUND ELECTRIC
---	PROPOSED WATERLINE
---	PROPOSED STORM PIPE
---	PROPOSED STORM INLET
---	PROPOSED LIGHT POLE
---	PROPOSED LIGHT POLE WITH ELECTRICAL OUTLETS
---	PROPOSED GREASE TRAP
---	PROPOSED CONCRETE PAVEMENT
---	PROPOSED STANDARD ASPHALT PAVEMENT
---	PROPOSED KYTC ASPHALT PAVEMENT
---	PROPOSED GRASS/LANDSCAPE AREAS



VICINITY MAP HOPKINSVILLE, KY

EXISTING SITE
STORM WATER RUNOFF
CALCULATION SUMMARY

METHOD OF STORM WATER CALCULATIONS:
SCS Method. 3 Hr Design Storms: 2, 10, 100 Year

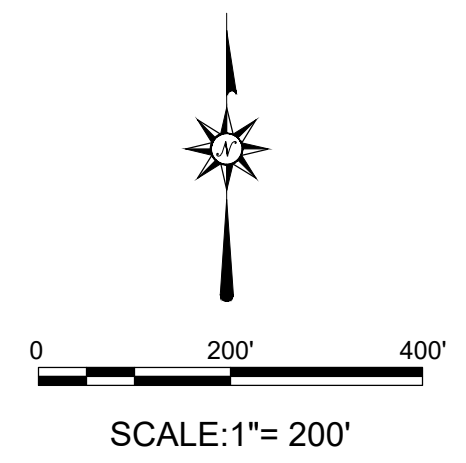
PRE-DEVELOPMENT
Total Drainage Area = 48.3 Acres
Cn = 78.7, Tc = 15.5 min.

PEAK DISCHARGE

Year	Q(cfs)
2	28.93
10	73.44
100	128.71

STORMWATER DISCHARGE LOCATION:

LAT: 36°49'53.85" N
LONG: 87°26'12.10" W



ONSITE DRAINAGE AREA:
4.9 ACRES TOTAL
0.8 ACRES IMPERVIOUS (CN = 98)
4.1 ACRES GRASS (CN = 61)

OFFSITE DRAINAGE AREA:
23.9 ACRES TOTAL
2.5 ACRES IMPERVIOUS (CN = 98)
4.7 ACRES GRASS (CN = 61)
16.7 ACRES ROW-CROP (CN = 78)

OFFSITE DRAINAGE AREA:
19.5 ACRES TOTAL

OFFSITE DRAINAGE AREA TO BASIN:
12.0 ACRES
8.5 ACRES IMPERVIOUS (CN = 98)
3.5 ACRES GRASS (CN = 61)

OFFSITE DRAINAGE AREA NOT TO BASIN:
7.5 ACRES
3.7 ACRES IMPERVIOUS (CN = 98)
3.8 ACRES GRASS (CN = 61)

Google Earth



PROPERTY OWNER 1 ADDRESS:
LARRY NORFLEET
3642 HAMPTON STATION RD
CLARKSVILLE, TN 37040
PROPERTY OWNER 2 ADDRESS:
MARK PEMBER
3070 PEMBROKE RD
HOPKINSVILLE, KY 42240

KENNER RANDOLPH
ENGINEERING & SURVEYING
150 SOUTH BREATHTT STREET
RUSSELLVILLE, KY 42276
270-717-1131

CLIENT ADDRESS:
NEWCOMB OIL
951 WITHROW COURT
BARSTOWN, KY 40004
ENGINEER:
ESK
DWN BY:
BSR
CKD BY:
CRK
FINAL SURVEY DATE:
6/27/23
PLOT DATE:
5/29/2024
CRD FILE:
2306021E
FILE NAME:
24036
2306021E

EXISTING WATERSHED
FIVESTAR
3050 & 3070 PEMBROKE RD
HOPKINSVILLE, KY 42240

SHEET
IDENTIFICATION
C1.1

EXISTING SITE
STORM WATER RUNOFF
CALCULATION SUMMARY

METHOD OF STORM WATER CALCULATIONS:
SCS Method. 3 Hr Design Storms: 2, 10, 100 Year

PRE-DEVELOPMENT
Total Drainage Area = 48.3 Acres

PEAK DISCHARGE

Year	Q(cfs)
2	28.93
10	73.44
100	128.71

PROPOSED SITE (TOTAL)
STORM WATER RUNOFF
CALCULATION SUMMARY

METHOD OF STORM WATER CALCULATIONS:
SCS Method. 3 Hr Design Storms: 2, 10, 100 Year

POST-DEVELOPMENT
Total Drainage Area = 48.3 Acres

PEAK DISCHARGE

Year	Q(cfs)
2	28.67
10	55.27
100	114.09

STORMWATER DISCHARGE LOCATION:

LAT: 36°49'53.85" N
LONG: 87°26'12.10" W

ONSITE DRAINAGE AREA NOT TO BASIN:

1.8 ACRES TOTAL
1.2 ACRES IMPERVIOUS (CN = 98)
0.6 ACRES GRASS (CN = 61)

ONSITE DRAINAGE AREA TO BASIN:

3.1 ACRES TOTAL
1.8 ACRES IMPERVIOUS (CN = 98)
1.3 ACRES GRASS (CN = 61)

OFFSITE DRAINAGE AREA:

23.9 ACRES TOTAL
2.5 ACRES IMPERVIOUS (CN = 98)
4.7 ACRES GRASS (CN = 61)
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OFFSITE DRAINAGE AREA:
19.5 ACRES TOTAL

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3.5 ACRES GRASS (CN = 61)

OFFSITE DRAINAGE AREA NOT TO EXISTING BASIN:
7.5 ACRES
3.7 ACRES IMPERVIOUS (CN = 98)
3.8 ACRES GRASS (CN = 61)

PROPOSED SITE (THRU BASIN)
STORM WATER RUNOFF
CALCULATION SUMMARY

METHOD OF STORM WATER CALCULATIONS:
SCS Method. 3 Hr Design Storms: 2, 10, 100 Year

POST-DEVELOPMENT
Total Drainage Area = 46.5 Acres

ROUTED THRU BASIN

Bottom El. = 571.77, Top El. 579.00
Storage Volume = 75,417 cft

PEAK DISCHARGE & ELEVATION

Year	Q(cfs)	Peak El.
2	24.96	575.70
10	48.55	576.89
100	104.12	577.93

OUTLET STRUCTURE:

48"Ø Outlet Culvert @ I.E. 571.77
"VEE" Weir @ I.E. 571.77
60" x 60" Rim Grate @ I.E. 577.30
Emergency Spillway @ Elev. 578.00

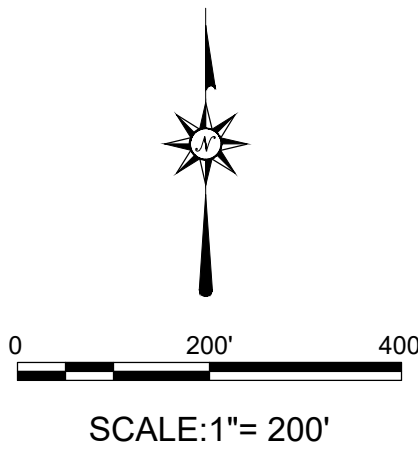
PROPOSED SITE (NOT TO BASIN)
STORM WATER RUNOFF
CALCULATION SUMMARY

METHOD OF STORM WATER CALCULATIONS:
SCS Method. 3 Hr Design Storms: 2, 10, 100 Year

POST-DEVELOPMENT
Total Drainage Area = 1.8 Acres
Cn = 86, Tc = 6.4 min.

PEAK DISCHARGE

Year	Q(cfs)
2	3.71
10	6.72
100	9.97



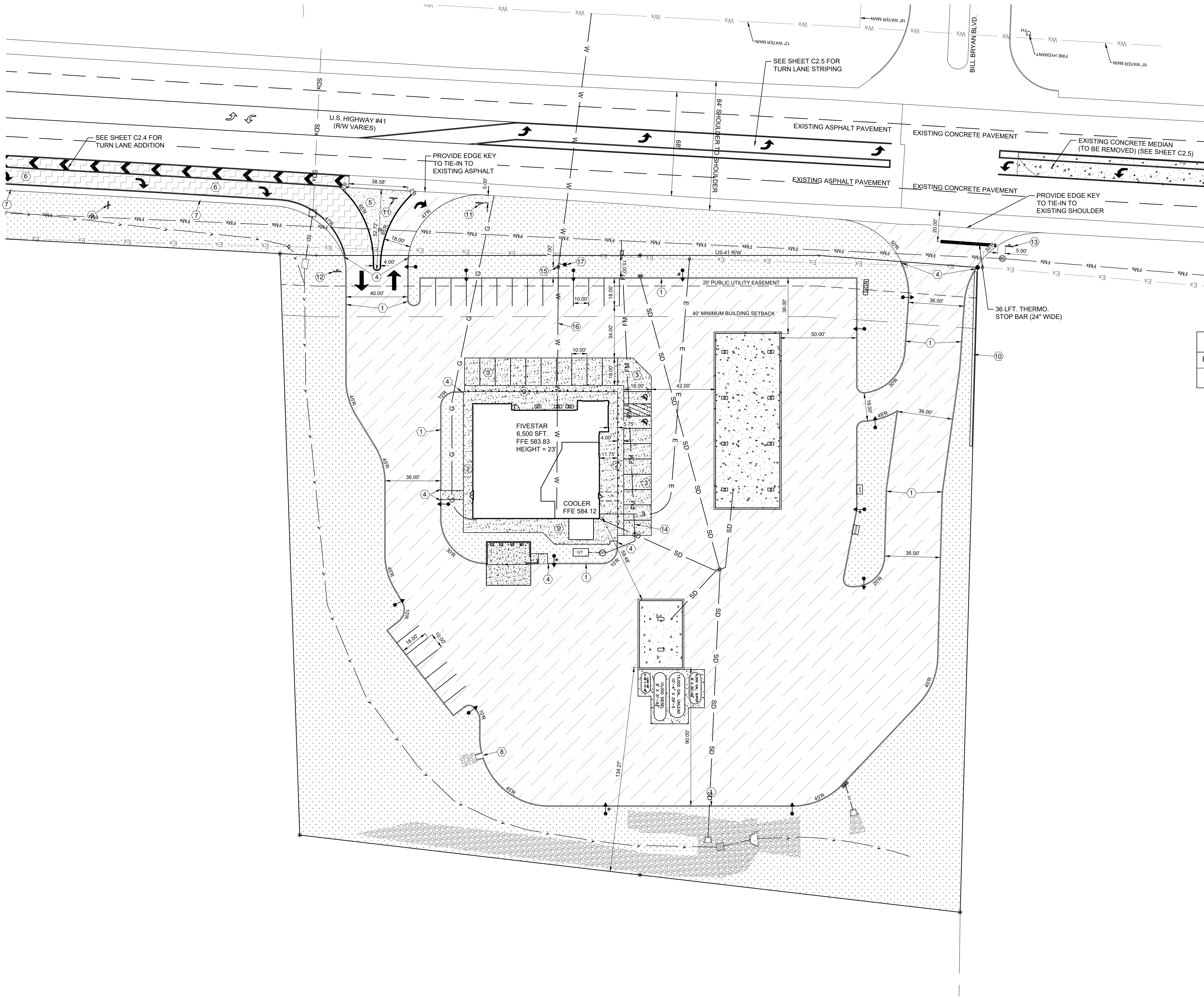
PROPERTY OWNER 1 ADDRESS:
LARRY NORFLEET
3642 HAMPTON STATION RD
CLARKSVILLE, TN 37040
PROPERTY OWNER 2 ADDRESS:
JACKSONVILLE
3070 PEMBROKE RD
HOPKINSVILLE, KY 42240

KENNER RANDOLPH
ENGINEERING & SURVEYING
150 SOUTH BREATHITT STREET
RUSSELLVILLE, KY 42276
270-717-1131

CLIENT ADDRESS:
NEWCOMB OIL
951 WITHROW COURT
BARSTOWN, KY 40004
ENGINEER:
ESK
DWN BY:
BSR
CKD BY:
CRK
FINAL SURVEY DATE:
6/27/23
PLOT DATE:
5/29/2024
SIZE:
24x36
CRD FILE:
2306021E
FILE NAME:
2306021E

PROPOSED WATERSHED
FIVESTAR
3050 & 3070 PEMBROKE RD
HOPKINSVILLE, KY 42240

SHEET
IDENTIFICATION
C1.2



GENERAL NOTES:

1. THE EXISTING UTILITIES SHOWN WERE FIELD SURVEYED FROM MARKINGS PROVIDED BY UTILITY COMPANIES AND ARE APPROXIMATE LOCATIONS. OTHER UTILITIES MAY EXIST ON THIS SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING 811 AND LOCATING ALL UTILITIES BEFORE ANY EXCAVATION BEGINS.
2. NO BUILDING PERMITS SHALL BE ISSUED UNTIL A FINAL DEVELOPMENT PLAN IS APPROVED BY THE PLANNING COMMISSION AND ALL CONDITIONS HAVE BEEN MET.
3. ALL CURB RADII ARE 5' TO THE FACE OF CURB UNLESS NOTED OTHERWISE.
4. SAWCUT EXISTING ASPHALT TO CLEAN NEAT LINES AT ALL TIE-IN LOCATIONS.

KEYNOTES

1. 12" CURB AND GUTTER (SEE DETAIL 11 SHEET C3.0)
2. ALL CURB RADII SHALL BE 5' TO THE FACE OF CURB UNLESS NOTED OTHERWISE
3. CONCRETE SIDEWALK (SEE DETAIL 10 SHEET C3.0)
4. BLACK CONCRETE SLAB
5. TAPER CURB HEIGHT TO 0" OVER A 3' DISTANCE
6. MOUNTABLE RAISED MEDIAN (SEE DETAIL 11 SHEET C3.0)
7. 11' WIDE RIGHT TURN LANE
8. 4' WIDE SHOULDER
9. 3' WIDE CURB CUT
10. RELOCATE ROAD SIGN TO EDGE OF NEW SHOULDER
11. 36" x 36" MUTCD DO NOT ENTER SIGN (R5-1) ON BREAKAWAY POSTS
12. 36" x 36" MUTCD DO NOT ENTER SIGN (R5-1)
13. 36" x 36" MUTCD STOP SIGN (R1-1) ON BREAKAWAY POSTS
14. 1-1/4" SCH. 80 PVC FORCE MAIN (SEE SHEET C2.7 FOR DETAILS)
15. PROPOSED 1" WATER METER
16. PROPOSED 1-1/2" SDR-21 WATER LINE
17. PROPOSED 6" FIRE HYDRANT

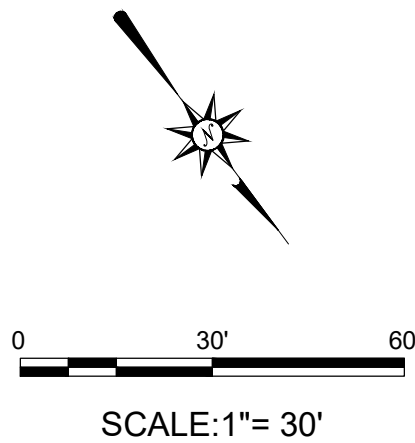
PARKING SPACE TABLE

BUILDING SIZE	SPACES REQUIRED	SPACES PROVIDED
6,500 SFT.	27	58 INCLUDING 2 ADA SPACES.

WATER AND SEWER NOTES:

THE PLANNING, DESIGN AND CONSTRUCTION OF WATER AND SANITARY SEWER UTILITY EXTENSION PROJECTS DEVELOPED WITHIN THE HWEA WATER SERVICE AREA AND HWEA 201 FACILITIES BOUNDARIES SHALL ADHERE TO:

1. THE HWEA STANDARDS MANUAL
2. HWEA POLICIES
3. CITY OF HOPKINSVILLE ORDINANCES
4. CITY OF HOPKINSVILLE SEWER USE ORDINANCE (CHAPTERS 51, 52 AND 53)
5. CHRISTIAN COUNTY ORDINANCES
6. KENTUCKY ENERGY AND ENVIRONMENT CABINET - DEPARTMENT OF ENVIRONMENTAL PROTECTION REGULATIONS
7. 2018 EDITION - RECOMMENDED STANDARDS FOR WATER WORKS (GREAT LAKES - UPPER MISSISSIPPI RIVER BOARD OF STATE AND PROVINCIAL PUBLIC HEALTH AND ENVIRONMENTAL MANAGERS)
7. 2014 EDITION - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES (GREAT LAKES - UPPER MISSISSIPPI RIVER BOARD OF STATE AND PROVINCIAL PUBLIC HEALTH AND ENVIRONMENTAL MANAGERS)

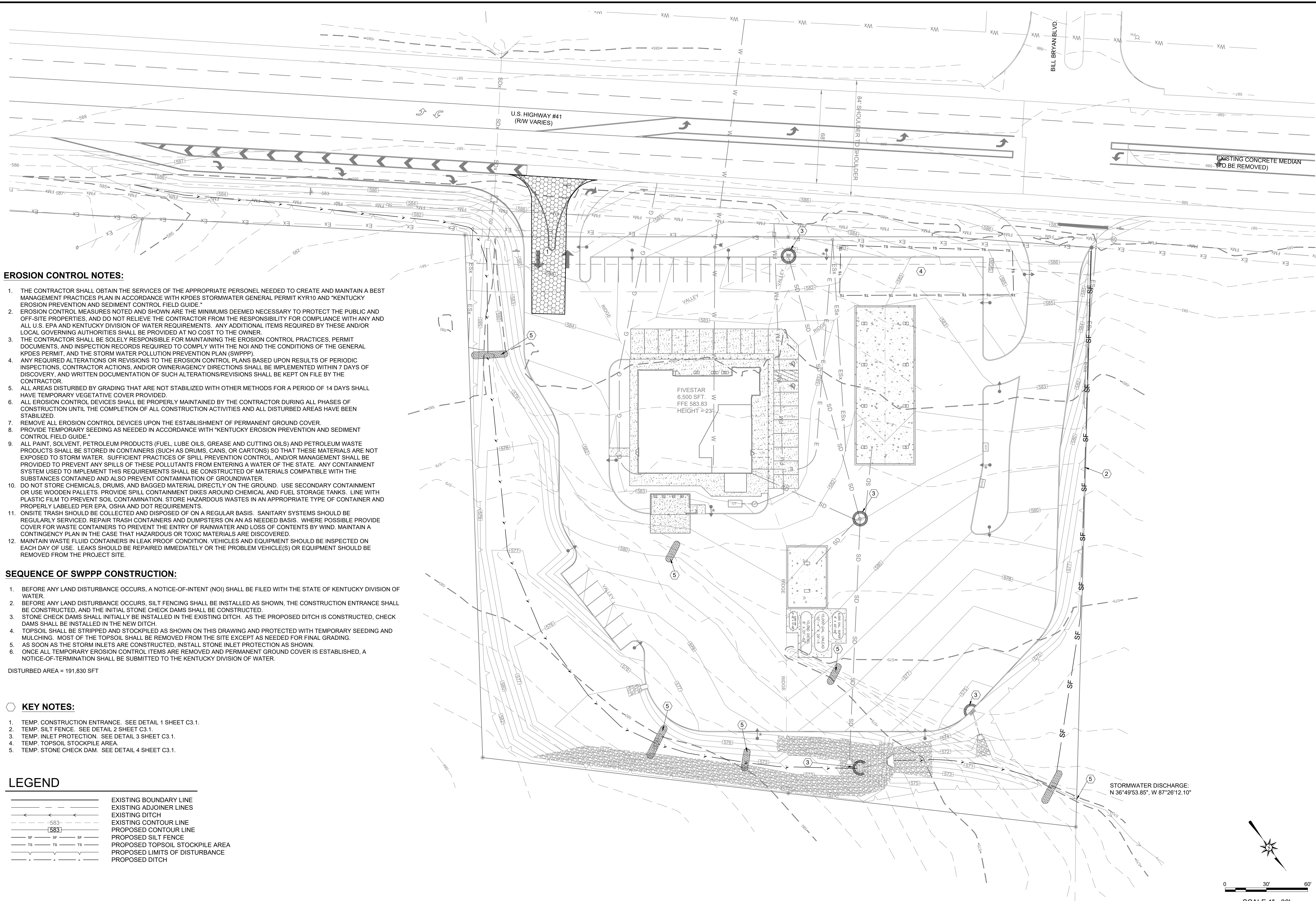


KENNER RANDOLPH
ENGINEERING & SURVEYING
150 SOUTH BREATHT STREET
RUSSELLVILLE, KY 42276
270-717-1131

ENGINEER: BSR	CLIENT ADDRESS: NEWCOMB COURT BARDSTOWN, KY 40004
DWN BY: BSR	PROPERTY OWNER ADDRESS:
CHK BY: CRK	
FINAL SURVEY DATE: 6/27/23	
CRD FILE: 5/3/2024	
PLOT DATE: 5/3/2024	
FILE NAME: 24X36	
FILE NUMBER: 2206021E	

SITE PLAN
FIVESTAR
U.S. HIGHWAY #41
HOPKINSVILLE, KY 42240

SHEET
IDENTIFICATION
C2.0



EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF THE APPROPRIATE PERSONNEL NEEDED TO CREATE AND MAINTAIN A BEST MANAGEMENT PRACTICES PLAN IN ACCORDANCE WITH KPD25 STORMWATER GENERAL PERMIT KYR10 AND "KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE."
2. EROSION CONTROL MEASURES NOTED AND SHOWN ARE THE MINIMUMS DEEMED NECESSARY TO PROTECT THE PUBLIC AND OFF-SITE PROPERTIES, AND DO NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR COMPLIANCE WITH ANY AND ALL U.S. EPA AND KENTUCKY DIVISION OF WATER REQUIREMENTS. ANY ADDITIONAL ITEMS REQUIRED BY THESE AND/OR LOCAL GOVERNING AUTHORITIES SHALL BE PROVIDED AT NO COST TO THE OWNER.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL PRACTICES, PERMIT REQUIREMENTS, AND INSPECTION RECORDS REQUIRED TO COMPLY WITH THE NOI AND THE CONDITIONS OF THE GENERAL KPD25 PERMIT, AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
4. ANY REQUIRED ALTERATIONS OR REVISIONS TO THE EROSION CONTROL PLAN BASED UPON RESULTS OF PERIODIC INSPECTIONS, CONTRACTOR ACTIONS, AND/OR OWNER/AGENCY DIRECTIONS SHALL BE IMPLEMENTED WITHIN 7 DAYS OF DISCOVERY, AND WRITTEN DOCUMENTATION OF SUCH ALTERATIONS/REVISIONS SHALL BE KEPT ON FILE BY THE CONTRACTOR.
5. ALL AREAS DISTURBED BY GRADING THAT ARE NOT STABILIZED WITH OTHER METHODS FOR A PERIOD OF 14 DAYS SHALL HAVE TEMPORARY VEGETATIVE COVER PROVIDED.
6. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED BY THE CONTRACTOR DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED.
7. REMOVE ALL EROSION CONTROL DEVICES UPON THE ESTABLISHMENT OF PERMANENT GROUND COVER.
8. PROVIDE TEMPORARY SEEDING AS NEEDED IN ACCORDANCE WITH "KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL FIELD GUIDE."
9. ALL PAINT, SOLVENT, PETROLEUM PRODUCTS (FUEL, LUBE OILS, GREASE AND CUTTING OILS) AND PETROLEUM WASTE PRODUCTS SHALL BE STORED IN CONTAINERS (SUCH AS DRUMS, CANS, OR CARTONS) SO THAT THESE MATERIALS ARE NOT EXPOSED TO STORM WATER. SUFFICIENT PRACTICES OF SPILL PREVENTION CONTROL, AND/OR MANAGEMENT SHALL BE PROVIDED TO PREVENT ANY SPILLS OF THESE POLLUTANTS FROM ENTERING A WATER OF THE STATE. ANY CONTAINMENT SYSTEM USED TO IMPLEMENT THIS REQUIREMENTS SHALL BE CONSTRUCTED OF MATERIALS COMPATIBLE WITH THE SUBSTANCES CONTAINED AND ALSO PREVENT CONTAMINATION OF GROUNDWATER.
10. DO NOT STORE CHEMICALS, DRUMS, AND BAGGED MATERIAL DIRECTLY ON THE GROUND. USE SECONDARY CONTAINMENT OR USE WOODEN PALLETS. PROVIDE SPILL CONTAINMENT DIKES AROUND CHEMICAL AND FUEL STORAGE TANKS. LINE WITH PLASTIC FILM TO PREVENT SOIL CONTAMINATION. STORE HAZARDOUS WASTES IN AN APPROPRIATE TYPE OF CONTAINER AND PROPERLY LABELED PER EPA, OSHA AND DOT REQUIREMENTS.
11. PROVIDE TRASH SHOULD BE COLLECTED AND DISPOSED OF ON A REGULAR BASIS. SANITARY SYSTEMS SHOULD BE REGULARLY SERVICED. REPAIR TRASH CONTAINERS AND DUMPSTERS ON AN AS NEEDED BASIS. WHERE POSSIBLE PROVIDE COVER FOR WASTE CONTAINERS TO PREVENT THE ENTRY OF RAINWATER AND LOSS OF CONTENTS BY WIND. MAINTAIN A CONTINGENCY PLAN IN THE CASE THAT HAZARDOUS OR TOXIC MATERIALS ARE DISCOVERED.
12. MAINTAIN WASTE FLUID CONTAINERS IN LEAK PROOF CONDITION. VEHICLES AND EQUIPMENT SHOULD BE INSPECTED ON EACH DAY OF USE. LEAKS SHOULD BE REPAIRED IMMEDIATELY OR THE PROBLEM VEHICLE(S) OR EQUIPMENT SHOULD BE REMOVED FROM THE PROJECT SITE.

SEQUENCE OF SWPPP CONSTRUCTION:

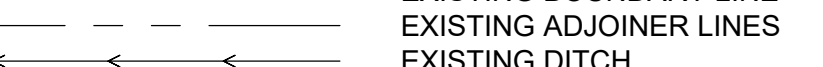
1. BEFORE ANY LAND DISTURBANCE OCCURS, A NOTICE-OF-INTENT (NOI) SHALL BE FILED WITH THE STATE OF KENTUCKY DIVISION OF WATER.
2. BEFORE ANY LAND DISTURBANCE OCCURS, SILT FENCING SHALL BE INSTALLED AS SHOWN, THE CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED, AND THE INITIAL STONE CHECK DAMS SHALL BE CONSTRUCTED.
3. STONE CHECK DAMS SHALL INITIALLY BE INSTALLED IN THE EXISTING DITCH. AS THE PROPOSED DITCH IS CONSTRUCTED, CHECK DAMS SHALL BE INSTALLED IN THE NEW DITCH.
4. TOPSOIL SHALL BE STRIPPED AND STOCKPILED AS SHOWN ON THIS DRAWING AND PROTECTED WITH TEMPORARY SEEDING AND MULCHING. MOST OF THE TOPSOIL SHALL BE REMOVED FROM THE SITE EXCEPT AS NEEDED FOR FINAL GRADING.
5. AS SOON AS THE STORM INLETS ARE CONSTRUCTED, INSTALL STONE INLET PROTECTION AS SHOWN.
6. ONCE ALL TEMPORARY EROSION CONTROL ITEMS ARE REMOVED AND PERMANENT GROUND COVER IS ESTABLISHED, A NOTICE-OF-TERMINATION SHALL BE SUBMITTED TO THE KENTUCKY DIVISION OF WATER.

DISTURBED AREA = 191,830 SFT

 KEY NOTES:

1. TEMP. CONSTRUCTION ENTRANCE. SEE DETAIL 1 SHEET C3.1.
2. TEMP. SILT FENCE. SEE DETAIL 2 SHEET C3.1.
3. TEMP. INLET PROTECTION. SEE DETAIL 3 SHEET C3.1.
4. TEMP. TOPSOIL STOCKPILE AREA.
5. TEMP. STONE CHECK DAM. SEE DETAIL 4 SHEET C3.1.

LEGEND



	EXISTING BOUNDARY LINE
	EXISTING ADJOINER LINES
	EXISTING DITCH
	EXISTING CONTOUR LINE
	PROPOSED CONTOUR LINE
	PROPOSED SILT FENCE
	PROPOSED TOSPOIL STOCKPILE AREA
	PROPOSED LIMITS OF DISTURBANCE
	PROPOSED DITCH

PROPOSED SITE (THRU BASIN)
STORM WATER RUNOFF
CALCULATION SUMMARY

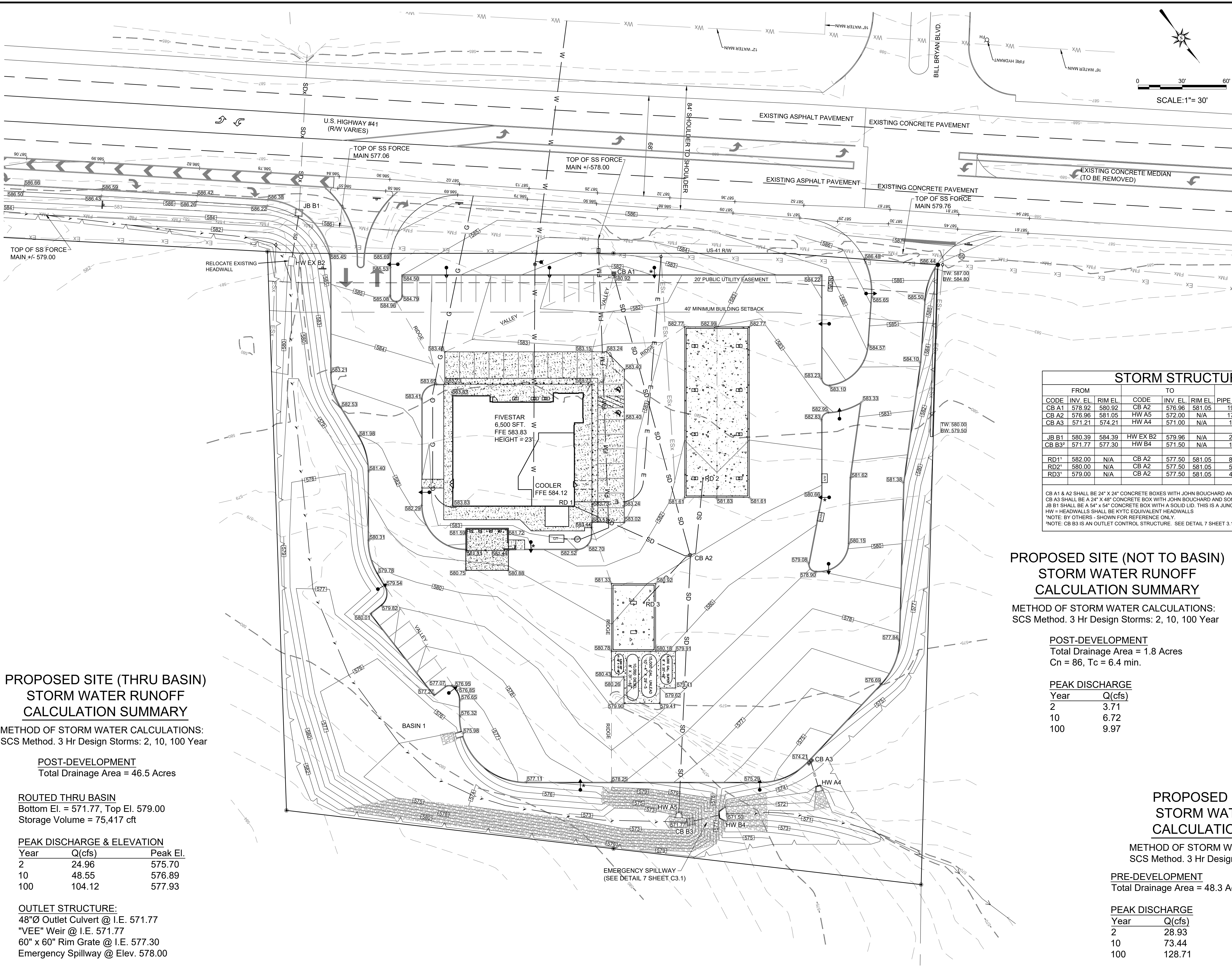
METHOD OF STORM WATER CALCULATIONS:
SCS Method. 3 Hr Design Storms: 2, 10, 100 Year

POST-DEVELOPMENT
Total Drainage Area = 46.5 Acres

ROUTED THRU BASIN
Bottom El. = 571.77, Top El. 579.00
Storage Volume = 75,417 cft

PEAK DISCHARGE & ELEVATION		
Year	Q(cfs)	Peak El.
2	24.96	575.70
10	48.55	576.89
100	104.12	577.93

OUTLET STRUCTURE:
48"Ø Outlet Culvert @ I.E. 571.77
"VEE" Weir @ I.E. 571.77
60" x 60" Rim Grate @ I.E. 577.30
Emergency Spillway @ Elev. 578.00



GENERAL NOTES:

- THE EXISTING UTILITIES SHOWN WERE FIELD SURVEYED FROM MARKINGS PROVIDED BY UTILITY COMPANIES AND ARE APPROXIMATE LOCATIONS. OTHER UTILITIES MAY EXIST ON THIS SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING 811 AND LOCATING ALL UTILITIES BEFORE ANY EXCAVATION BEGINS.
- MORE THAN 1 ACRE OF LAND SHOULD BE DISTURBED DURING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL SUBMIT AN NOI WITH THE STATE OF KENTUCKY PRIOR TO BEGINNING ANY GRADING WORK.
- NO GRADING, STRIPPING, EXCAVATION, FILLING, OR OTHER DISTURBANCE OF THE NATURAL GROUND COVER SHALL TAKE PLACE UNLESS AND UNTIL THE CITY OF HOPKINSVILLE HAS APPROVED THE DEVELOPER'S SOIL EROSION CONTROL PROCEDURES AND EROSION CONTROL PLAN.
- NO BUILDING PERMITS SHALL BE ISSUED UNTIL A FINAL DEVELOPMENT PLAN IS APPROVED BY THE PLANNING COMMISSION AND ALL CONDITIONS HAVE BEEN MET.
- ALL DISTURBED AREAS THAT ARE NOT PAVED, LANDSCAPED, OR OTHERWISE PROVIDED WITH PERMANENT GROUND COVER SHALL BE SEEDDED OR SODDED AS SOON AS PRACTICAL TO PREVENT SOIL EROSION.

STORM STRUCTURE TABLE

FROM			TO			PIPE LENGTH	SLOPE	DIAMETER	TYPE
CODE	INV. EL.	RIM EL.	CODE	INV. EL.	RIM EL.				
CB A1	578.92	580.92	CB A2	576.96	581.05	196 FT	1.00%	15-IN	HDPE N-12
CB A2	576.96	581.05	HW A5	572.00	N/A	175 FT	2.83%	15-IN	HDPE N-12
CB A3	571.21	574.21	HW A4	571.00	N/A	17 FT	1.24%	18-IN	HDPE N-12
JB B1	580.39	584.39	HW EX B2	579.96	N/A	28 FT	1.53%	29x45-IN	RCP
CB B3 ²	571.77	577.30	HW B4	571.50	N/A	18 FT	1.50%	48-IN	HDPE N-12
RD1 ¹	582.00	N/A	CB A2	577.50	581.05	86 FT	5.23%	8-IN	PVC SCH. 40
RD2 ¹	580.00	N/A	CB A2	577.50	581.05	53 FT	4.72%	8-IN	PVC SCH. 40
RD3 ¹	579.00	N/A	CB A2	577.50	581.05	44 FT	3.41%	6-IN	PVC SCH. 40

CB A1 & A2 SHALL BE 24" X 24" CONCRETE BOXES WITH JOHN BOUCHARD AND SONS 4075 GRATE OR EQUIVALENT.
CB A3 SHALL BE A 24" X 48" CONCRETE BOX WITH JOHN BOUCHARD AND SONS 4078 GRATE OR EQUIVALENT.
JB B1 SHALL BE A 54" X 54" CONCRETE BOX WITH A SOLID LID. THIS IS A JUNCTION BOX WITH NO GRATE.
HW = HEADWALLS SHALL BE KYTO EQUIVALENT HEADWALLS
NOTE: BY OTHERS - SHOWN FOR REFERENCE ONLY.
NOTE: CB B3 IS AN OUTLET CONTROL STRUCTURE. SEE DETAIL 7 SHEET 3.1.

PROPOSED SITE (NOT TO BASIN)
STORM WATER RUNOFF
CALCULATION SUMMARY

METHOD OF STORM WATER CALCULATIONS:
SCS Method. 3 Hr Design Storms: 2, 10, 100 Year

POST-DEVELOPMENT
Total Drainage Area = 1.8 Acres
Cn = 86, To = 6.4 min.

PEAK DISCHARGE	
Year	Q(cfs)
2	3.71
10	6.72
100	9.97

PROPOSED SITE (TOTAL)
STORM WATER RUNOFF
CALCULATION SUMMARY

METHOD OF STORM WATER CALCULATIONS:
SCS Method. 3 Hr Design Storms: 2, 10, 100 Year

PRE-DEVELOPMENT
Total Drainage Area = 48.3 Acres

POST-DEVELOPMENT
Total Drainage Area = 48.3 Acres

PEAK DISCHARGE	
Year	Q(cfs)
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PEAK DISCHARGE	
Year	Q(cfs)
2	28.97
10	55.27
100	114.09

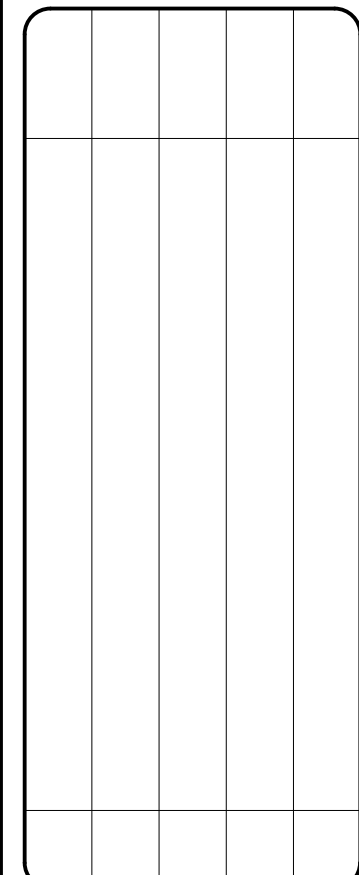


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150 SOUTH BREATHITT STREET
RUSSELLVILLE, KY 42276
270-717-1131

ENGINEER: BSR	CLIENT ADDRESS: NEWCOMB OIL 951 WITHROW COURT BARDSTOWN, KY 40004	DWN BY: BSR	CKD BY: BSR	FINAL SURVEY DATE: 6/27/23	PLOT DATE: 5/29/2024	CRD FILE: 2306021E
PROPERTY OWNER ADDRESS: SIZE: 24X36 FILE NAME: 2306021E						

GRADING PLAN
FIVESTAR
U.S. HIGHWAY #41
HOPKINSVILLE, KY 42240

SHEET
IDENTIFICATION
C2.2

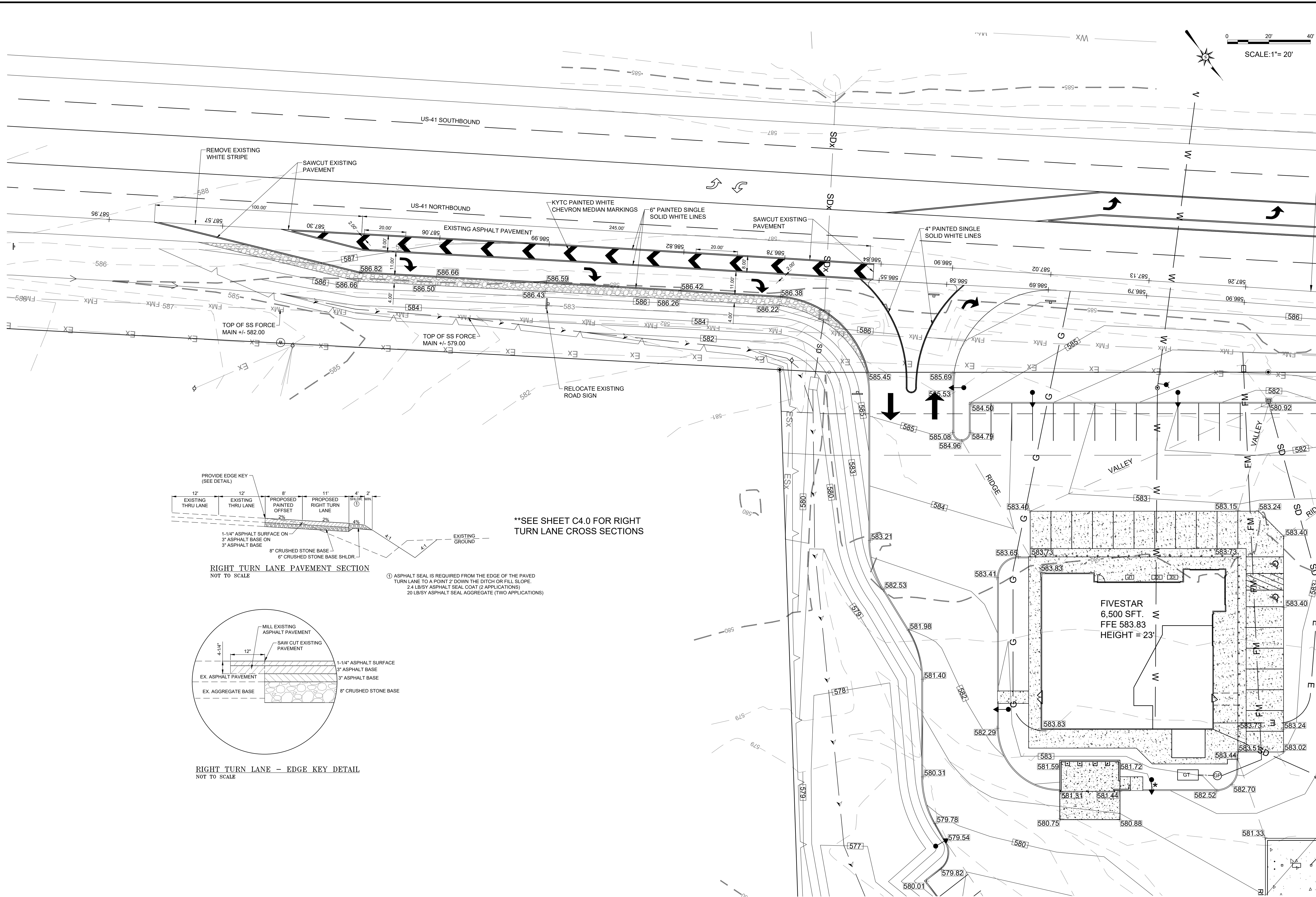


**KENNER RANDOLPH
ENGINEERING & SURVEYING**
150 SOUTH BREATHTITT STREET
RUSSELLVILLE, KY 42276
270-717-1131

CLIENT ADDRESS: NEWCOMB OIL 951 WITHROW COURT BARDSTOWN, KY 40004	ENGINEER: BSR	DWN BY: BSR	KCO BY: CRK	FINAL SURVEY DATE: 6/27/23	PLOT DATE: 5/29/2024	CRO FILE: 2306021E	FILE NAME: 2306021E
	PROPERTY OWNER ADDRESS:						

ENLARGED GRADING PLAN
FIVESTAR
U.S. HIGHWAY #41
HOPKINSVILLE, KY 42240

SHEET
IDENTIFICATION
C2.3



SCALE: 1" = 20'

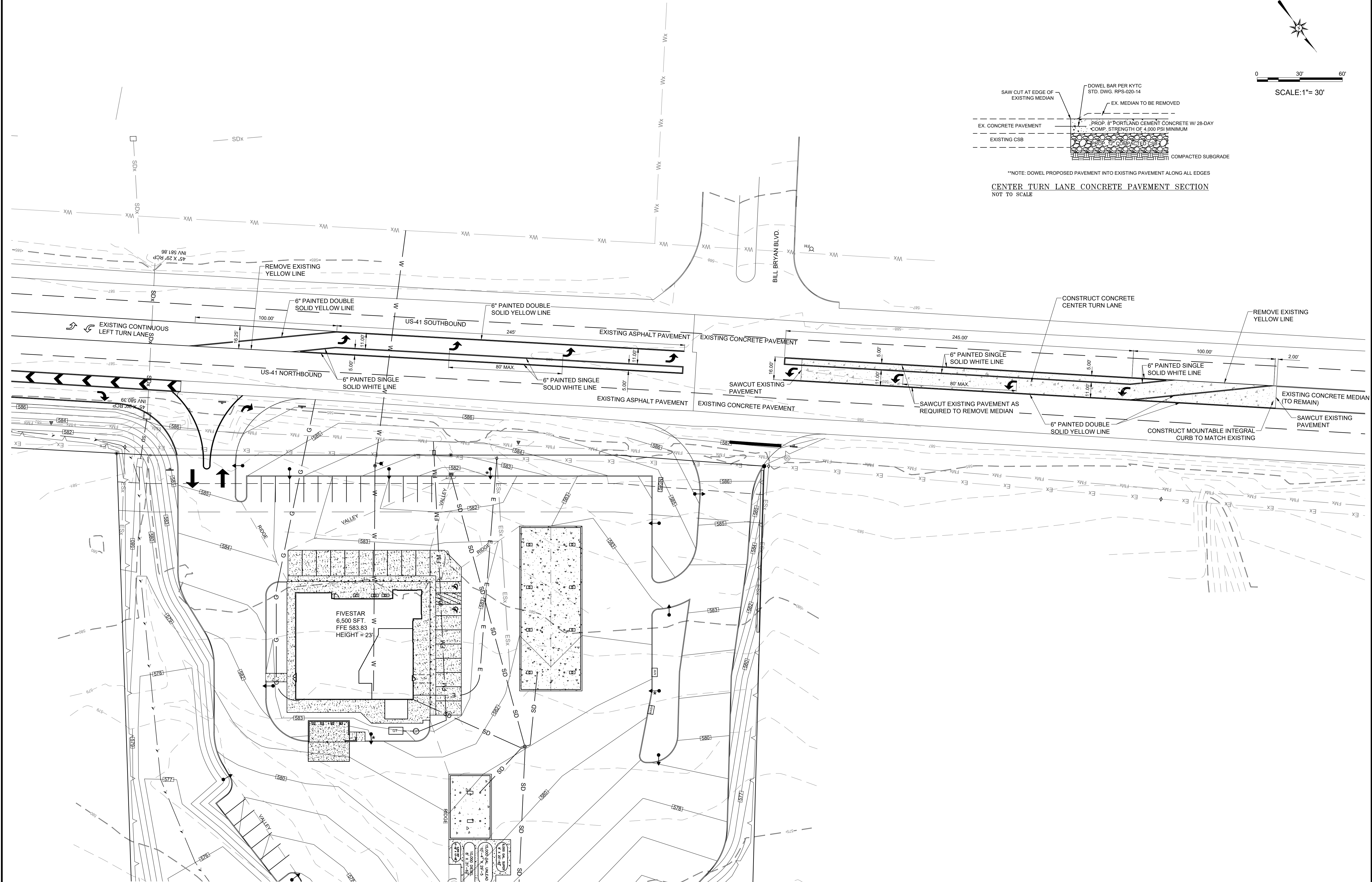


KENNER RANDOLPH
ENGINEERING & SURVEYING
150 SOUTH BREATHTT STREET
RUSSELLVILLE, KY 42276
270-717-1131

ENGINEER:	BSR	OWN BY:	CRK
CLIENT ADDRESS:	NEWCOMB COURT	FINAL SURVEY DATE:	6/27/23
951 WITHROW COURT	BARDSTOWN, KY 40004	PLOT DATE:	5/22/2024
PROPERTY OWNER ADDRESS:		FILE NAME:	2206021E

RIGHT TURN LANE PLAN
FIVESTAR
U.S. HIGHWAY #41
HOPKINSVILLE, KY 42240

SHEET
IDENTIFICATION
C2.4

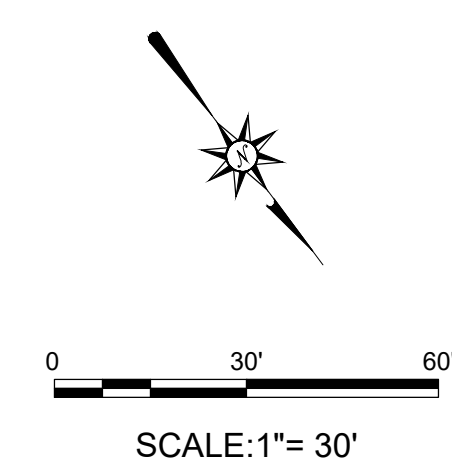
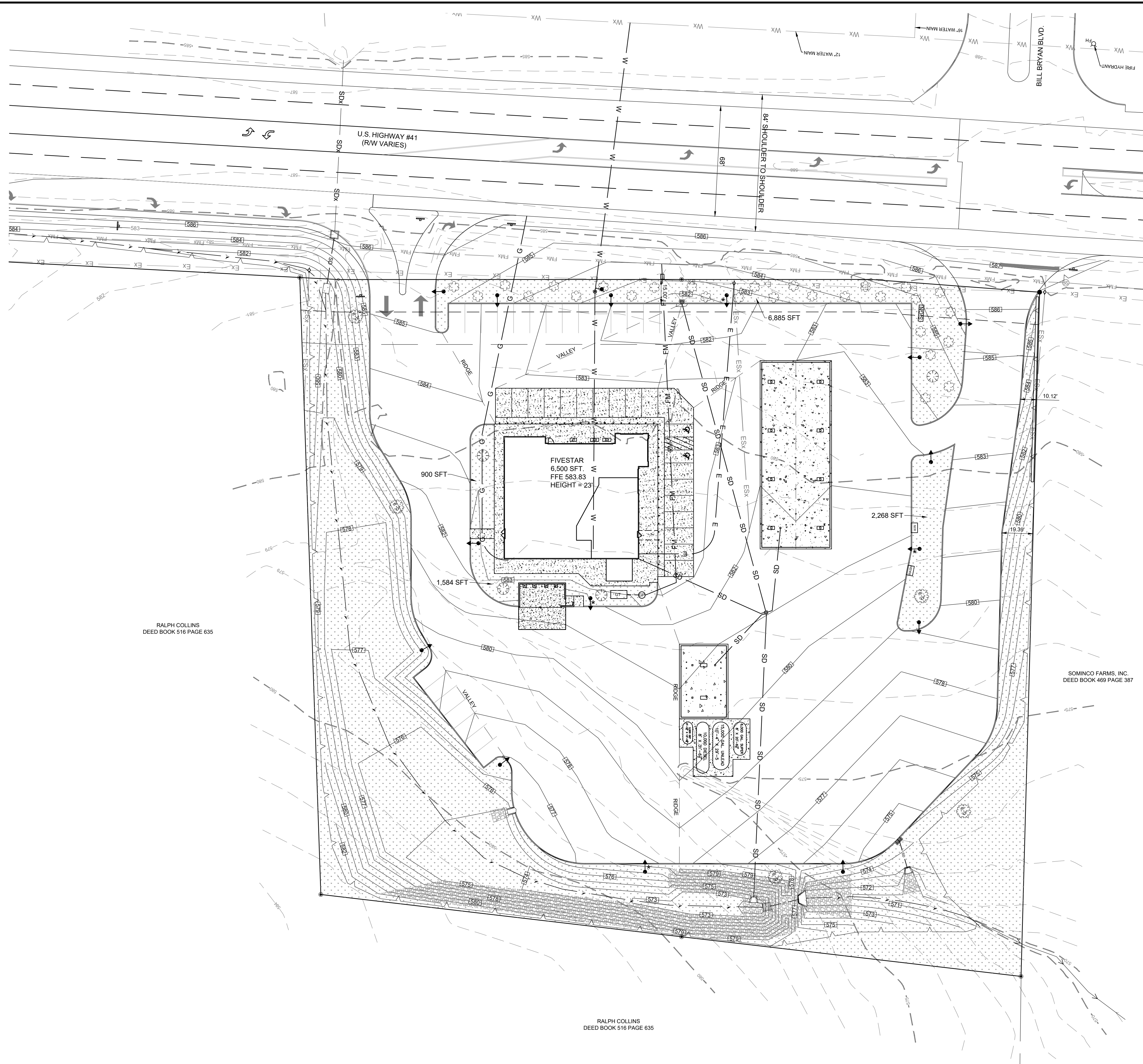


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150 SOUTH BREATHITT STREET
RUSSELLVILLE, KY 42276
270-717-1131

NEWCOMB OIL 951 WITHROW COURT BARDSTOWN, KY 40004	PROPERTY OWNER ADDRESS:	DWN BY: CKD CSR
	FINAL SURVEY DATE: 6/27/23	PLOT DATE: 2306021E 5/29/2024 FILE NAME: 2308021E SIZE: 24X36

FIVESTAR
U.S. HIGHWAY #41
HOPKINSVILLE, KY 42240

SHEET
IDENTIFICATION
C2.5



SITE DATA

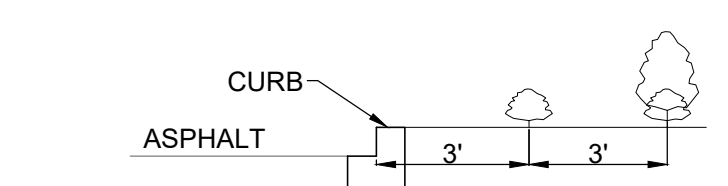
1. CURRENT ZONING FOR THE LOT: NOT INCORPORATED
2. TOTAL LOT AREA IS 4.106 ACRES OR 178,842 SFT.
3. PARKING SPACES PROVIDED = 58
4. MINIMUM TREES REQ'D. = 9
5. TREES PROVIDED = 9
6. VUA = 118, 517 SFT.
7. 5% VUA REQ'D LANDSCAPE AREA = 5,926 SFT.
8. VUA LANDSCAPE AREA PROVIDED = 11,637 SFT.

PLANT SCHEDULE

- | | |
|---|---|
|  | DWARF RED OAK (QUERCUS RUBRA) |
|  | REDBUD (CERCIS CANADENSIS) |
|  | BUMALDA SPIREA (SPIRAEA X BUMALDA)
OR CHINA HOLLY (ILEX X MESERVEAE) |
|  | GRASS, LANDSCAPE ROCK OR SOLITE |

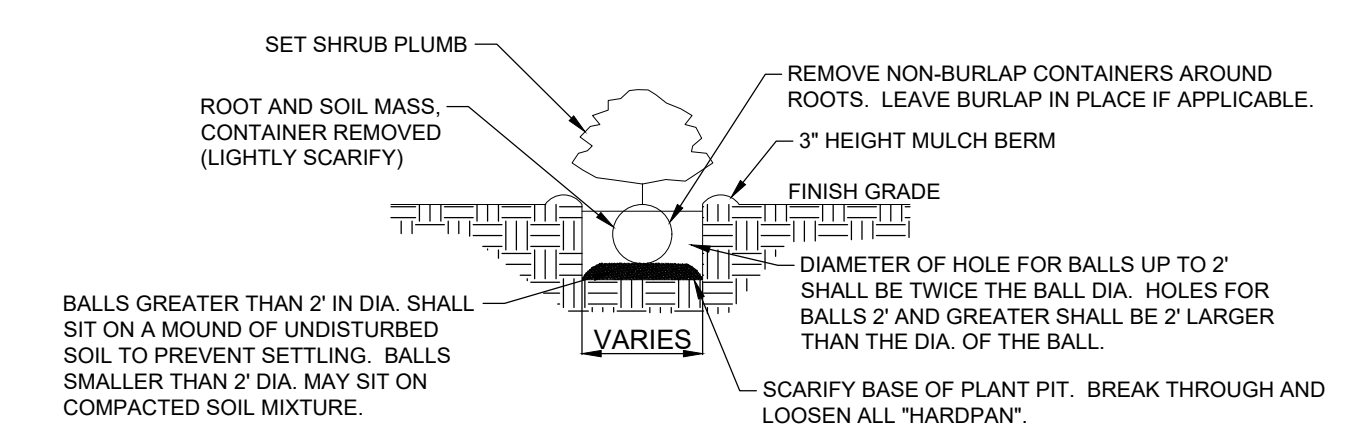
LANDSCAPING NOTES:

1. ALL DECIDUOUS TREES SHALL HAVE A MINIMUM TRUNK DIAMETER OF 2.00" IN CALIPER LOCATED 6" ABOVE THE GROUND AND SHALL BE A MINIMUM OVERALL HEIGHT OF 10' AT PLANTING.
2. ALL SHRUBS ALONG THE FRONT EDGE OF THE PARKING LOT SHALL BE MAINTAINED TO A HEIGHT OF THREE FEET (3') OR LESS.
3. AT LEAST 20% OF THE SHRUBS PLANTED SHALL BE EVERGREEN SHRUBS.
4. ALL PLANT MATERIALS AND PLANTING METHODS SHALL MEET THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS AND THE HOPKINSVILLE CODE OF ORDINANCES.
5. ALL DISTURBED AREAS NOT COVERED BY BUILDINGS OR PAVEMENT SHALL BE SEEDED OR SODDED WITH GRASS OF THE FESCUE OR BLUEGRASS FAMILY.



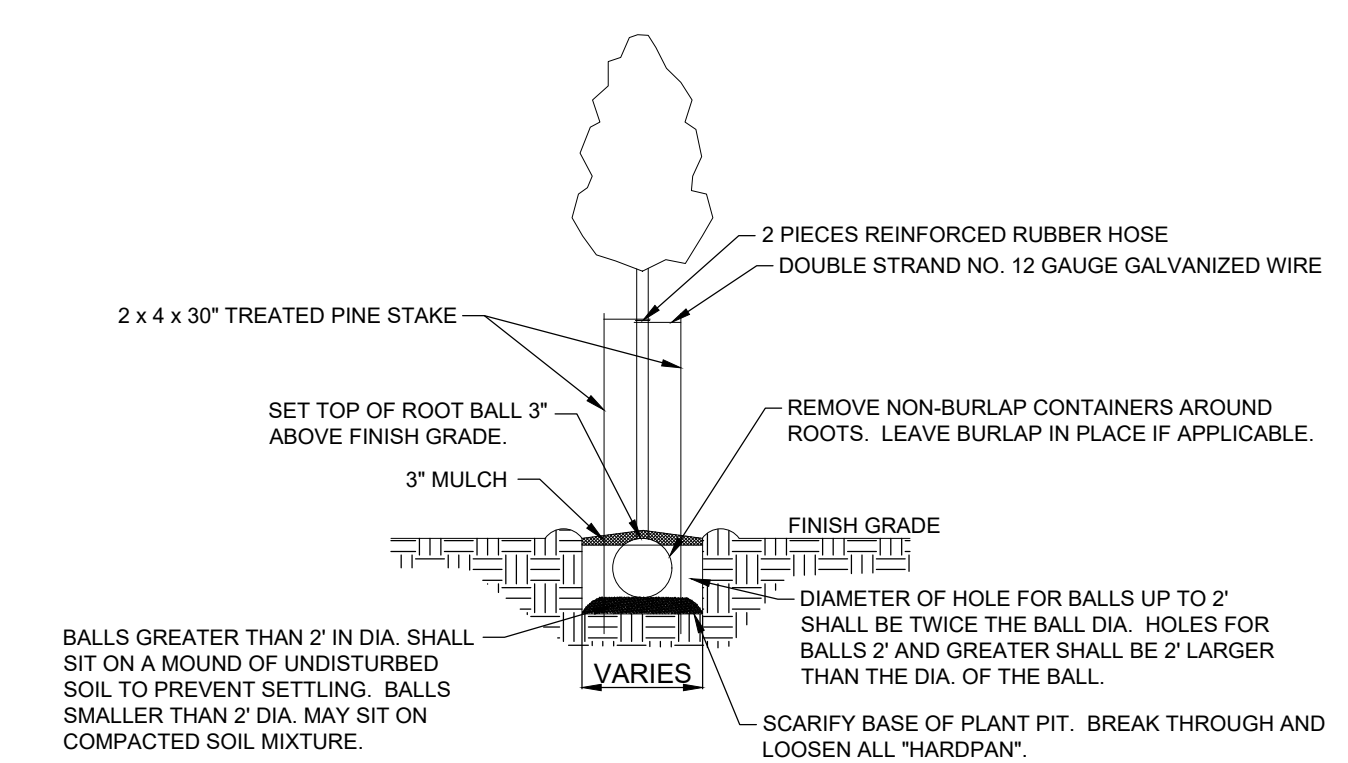
SHRUB/TREE PLANTING ALONG ROADWAYS

NTS



SHRUB PLANTING DETAIL

N.T.S



TREE PLANTING DETAIL

TRENDS

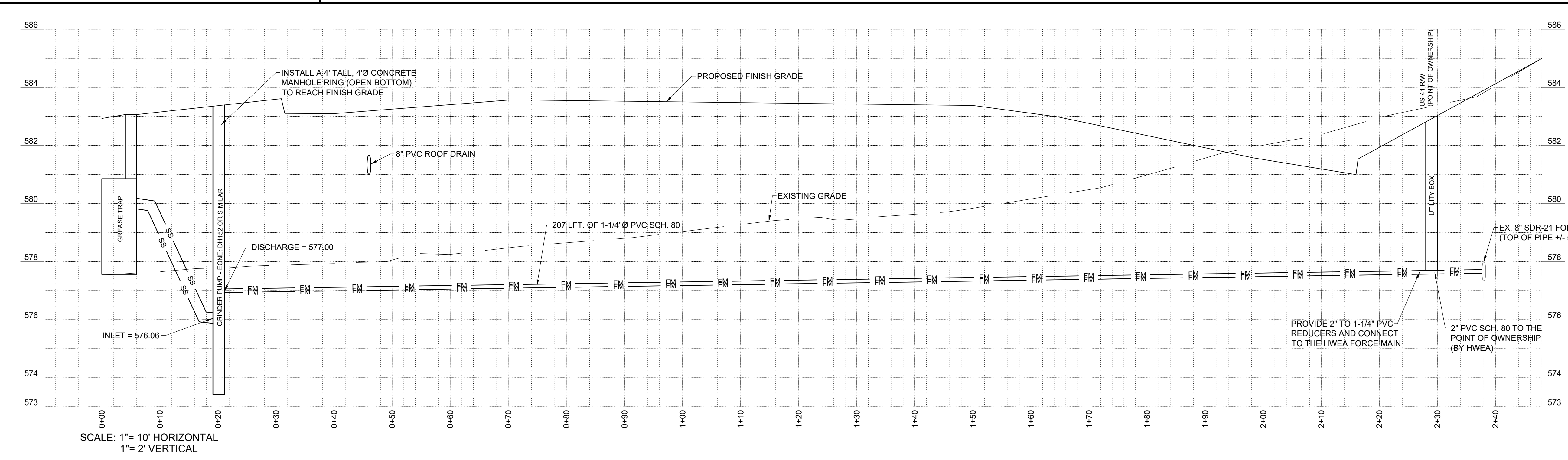
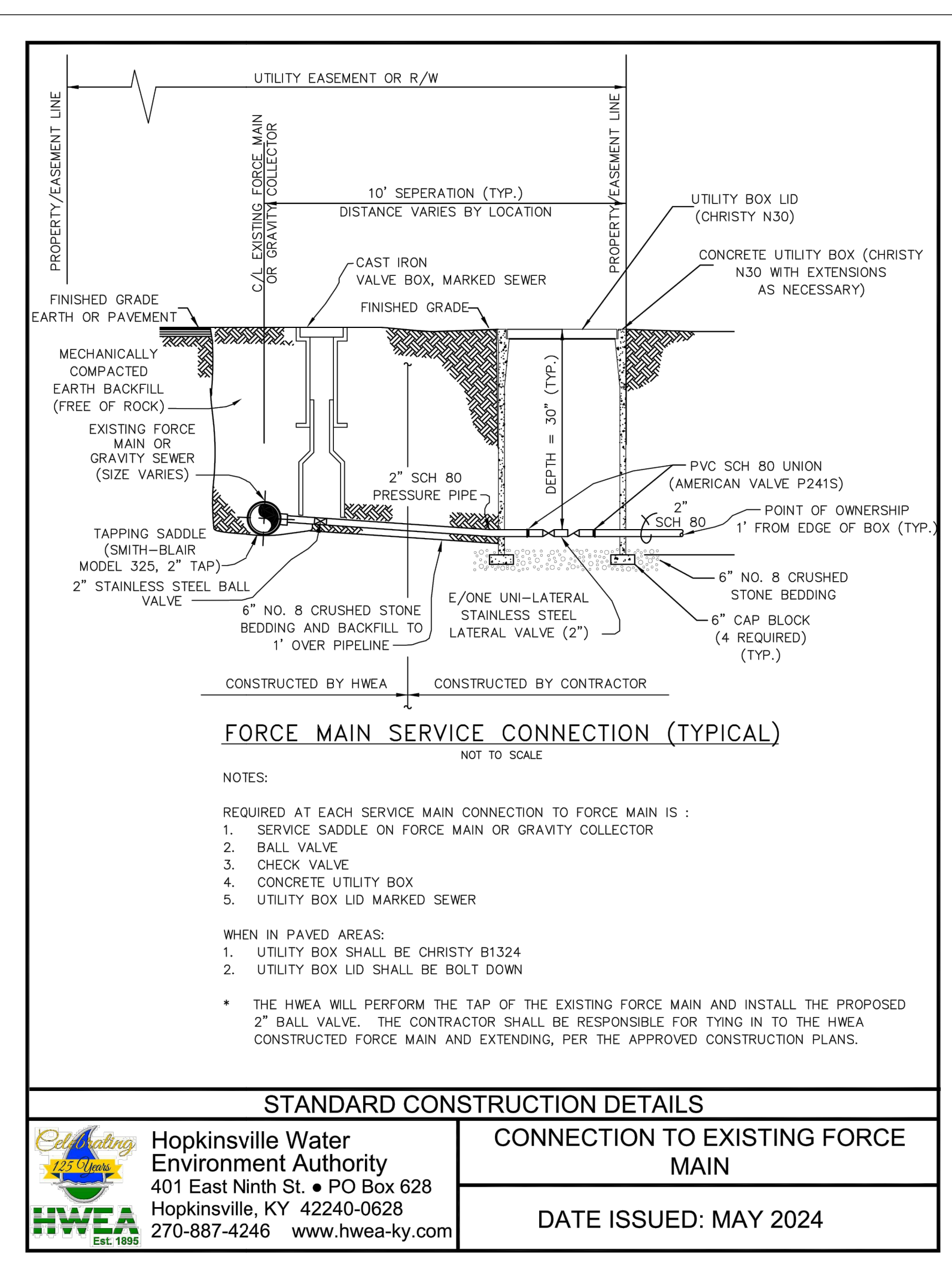
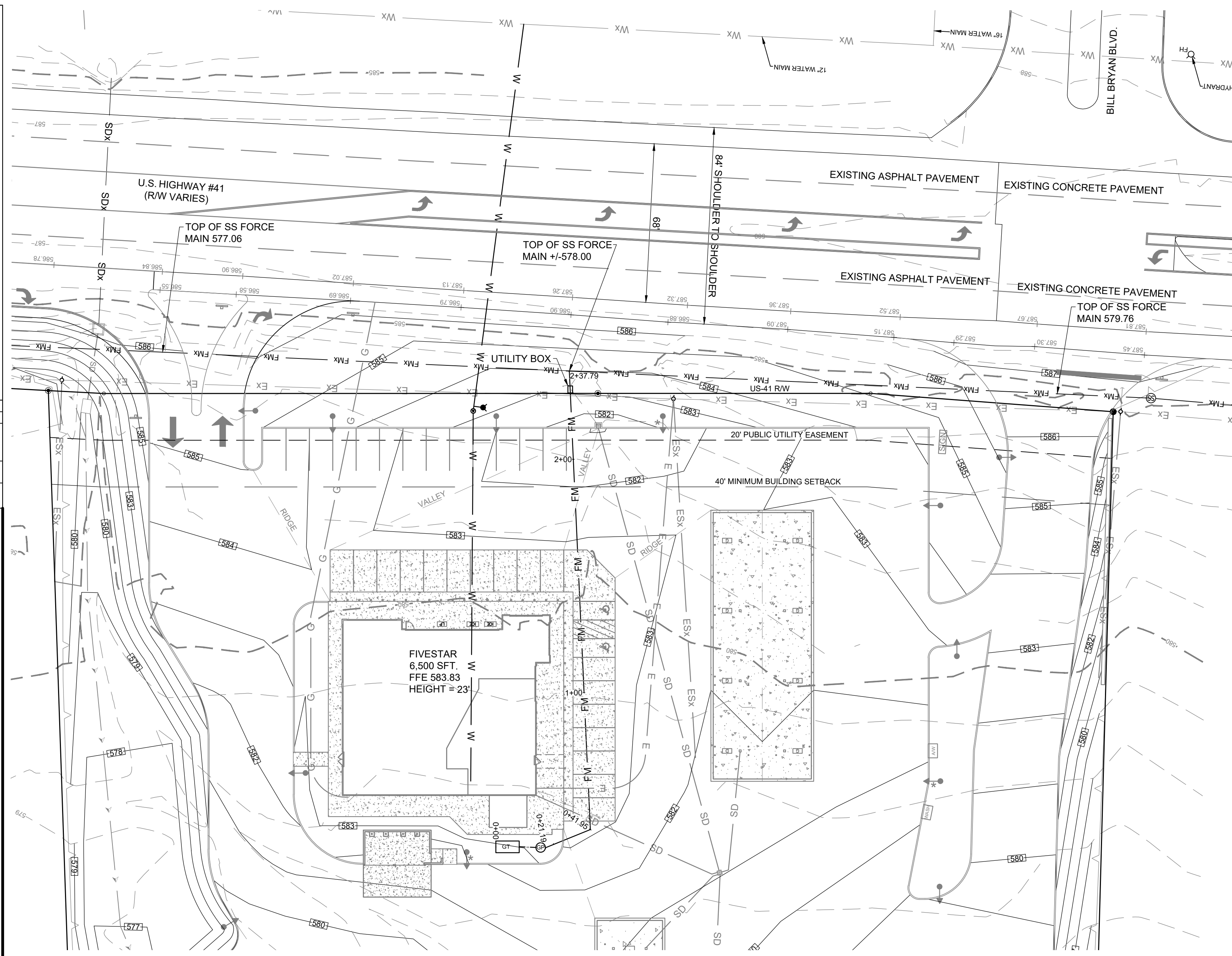
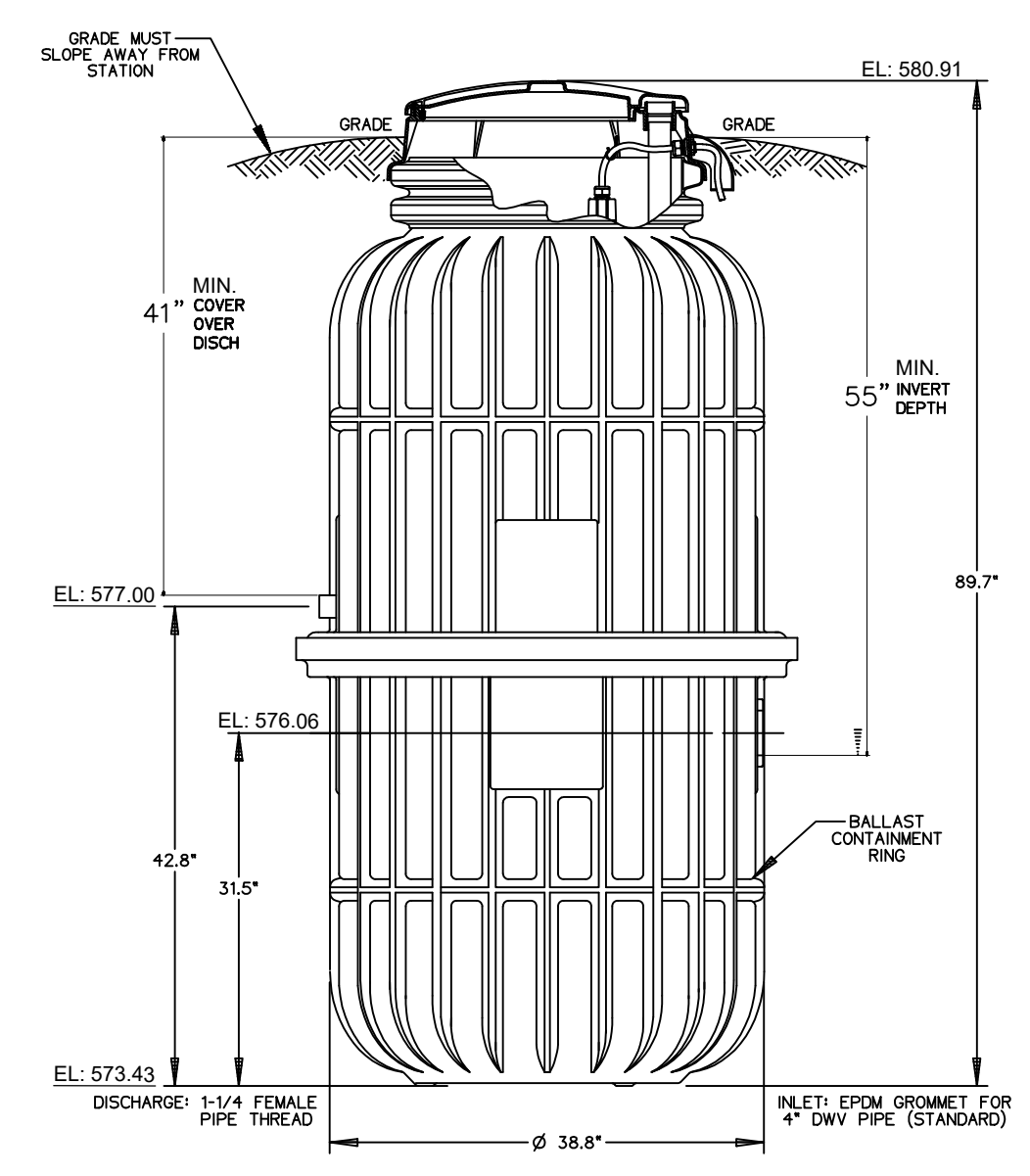
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**KENNER RANDOLPH
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150 SOUTH BREATHITT STREET
RUSSELLVILLE, KY 42276
270-717-1131

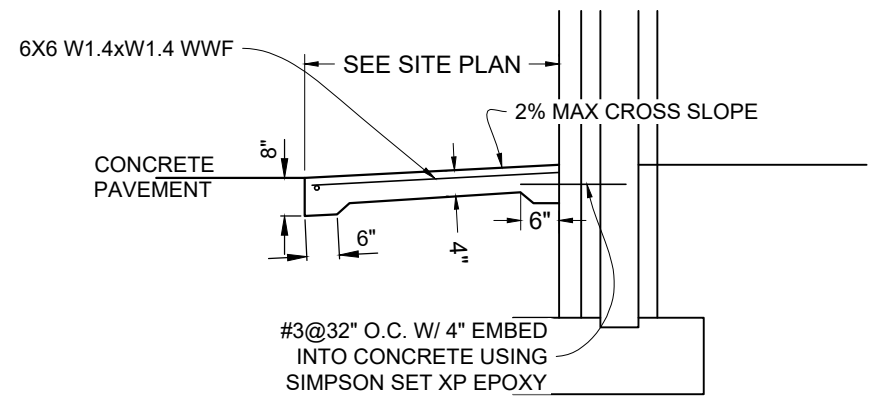
CLIENT ADDRESS: NEWCOMB OIL 951 WITHROW COURT BARDSTOWN, KY 40004	ENGINEER: BSR	DWN BY: CKD BY: BSR	FINAL SURVEY DATE: 6/27/23	CRD FILE: 2306021E
	PROPERTY OWNER ADDRESS:	CRD DATE: 5/30/2024	FILE NAME: 2306021E	

LANDSCAPING PLAN
FIVESTAR
U.S. HIGHWAY #41
HOPKINSVILLE, KY 42240

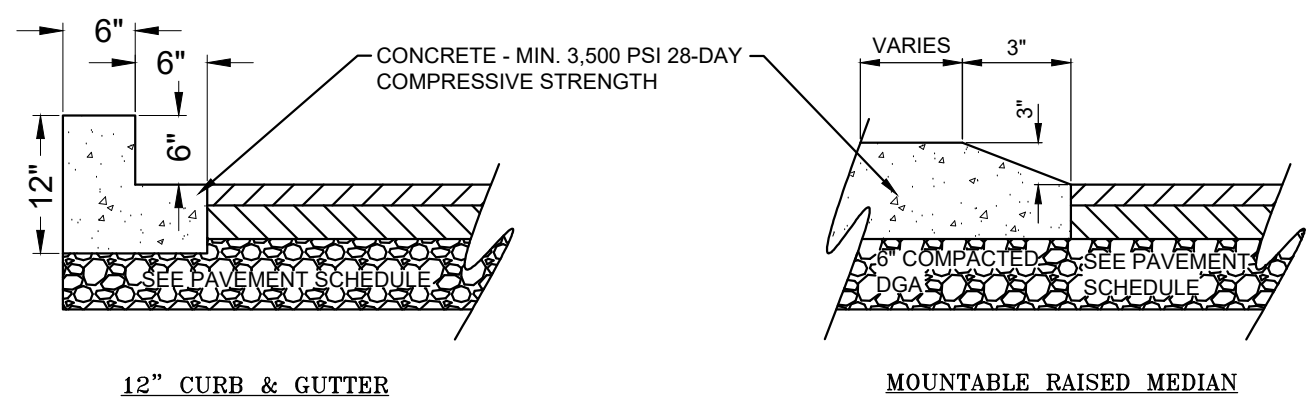
SHEET IDENTIFICATION



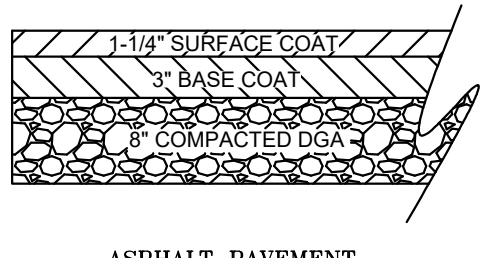
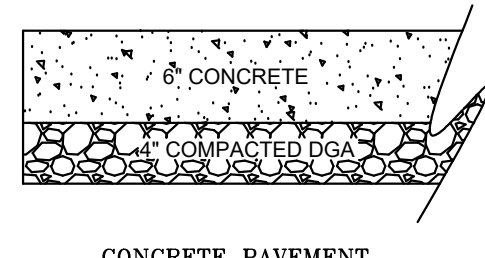
- # GENERAL NOTES:
-
- THE PLANNING, DESIGN AND CONSTRUCTION OF WATER AND SANITARY SEWER UTILITY EXTENSION PROJECTS DEVELOPED WITHIN THE HWEA WATER SERVICE AREA AND HWEA 201 FACILITIES BOUNDARIES SHALL ADORE TO:
1. THE HWEA STANDARDS MANUAL
 2. HWEA POLICIES
 3. CITY OF HOPKINSVILLE ORDINANCES
 4. CITY OF HOPKINSVILLE SEWER USE ORDINANCE (CHAPTERS 51, 52 AND 53)
 5. CHRISTIAN COUNTY ORDINANCES
 6. KENTUCKY ENERGY AND ENVIRONMENT CABINET - DEPARTMENT OF ENVIRONMENTAL PROTECTION REGULATIONS
 7. 2018 EDITION - RECOMMENDED STANDARDS FOR WATER WORKS (GREAT LAKES - UPPER MISSISSIPPI RIVER BOARD OF STATE AND PROVINCIAL PUBLIC HEALTH AND ENVIRONMENTAL MANAGERS)
 7. 2014 EDITION - RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES (GREAT LAKES - UPPER MISSISSIPPI RIVER BOARD OF STATE AND PROVINCIAL PUBLIC HEALTH AND ENVIRONMENTAL MANAGERS)



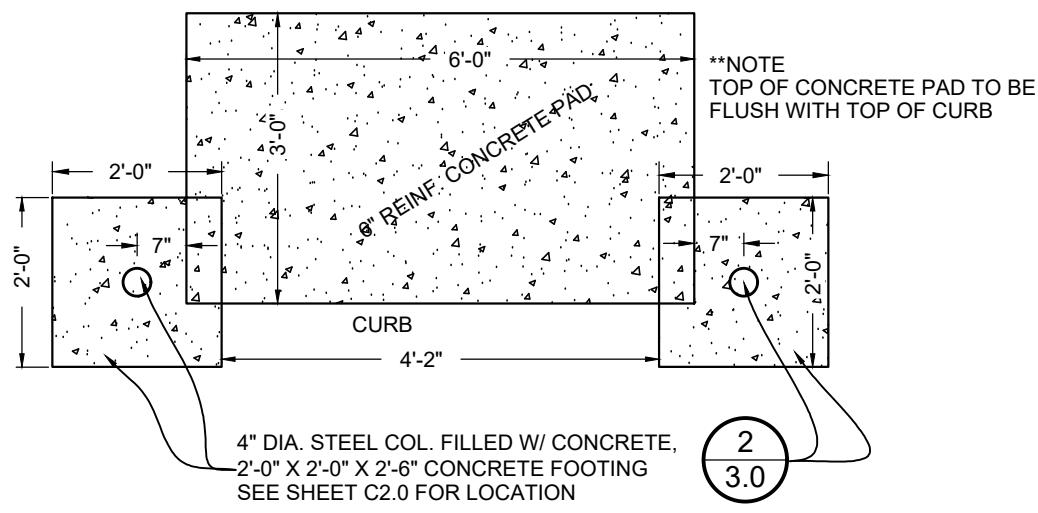
10 SIDEWALK DETAIL
3.0 N.T.S.



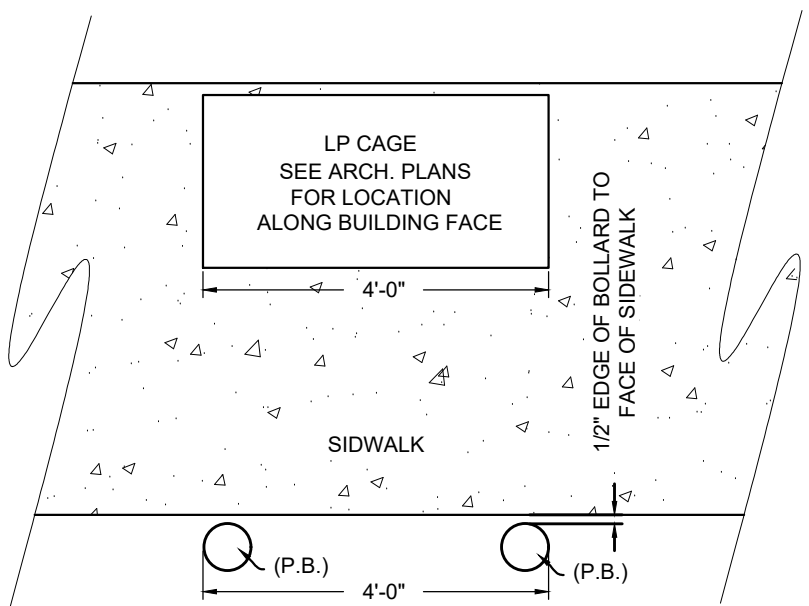
11 CURB DETAIL
3.0 N.T.S.



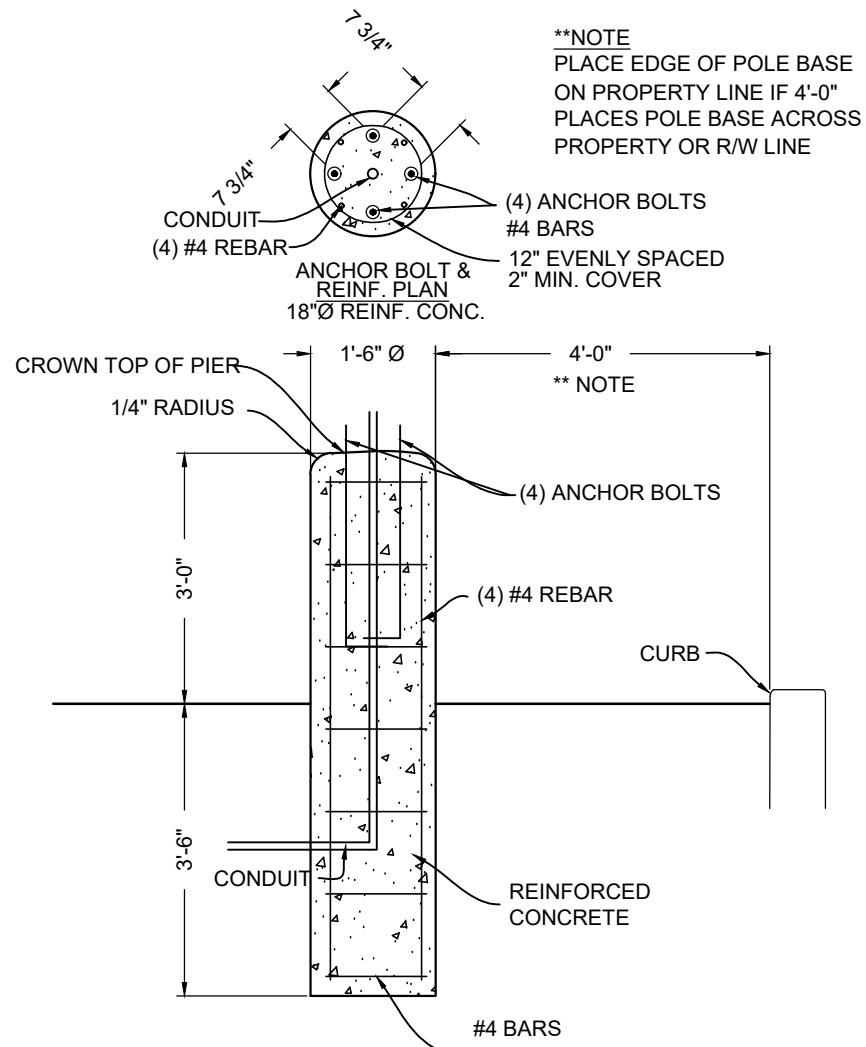
12 PAVEMENT DETAIL
3.0 N.T.S.



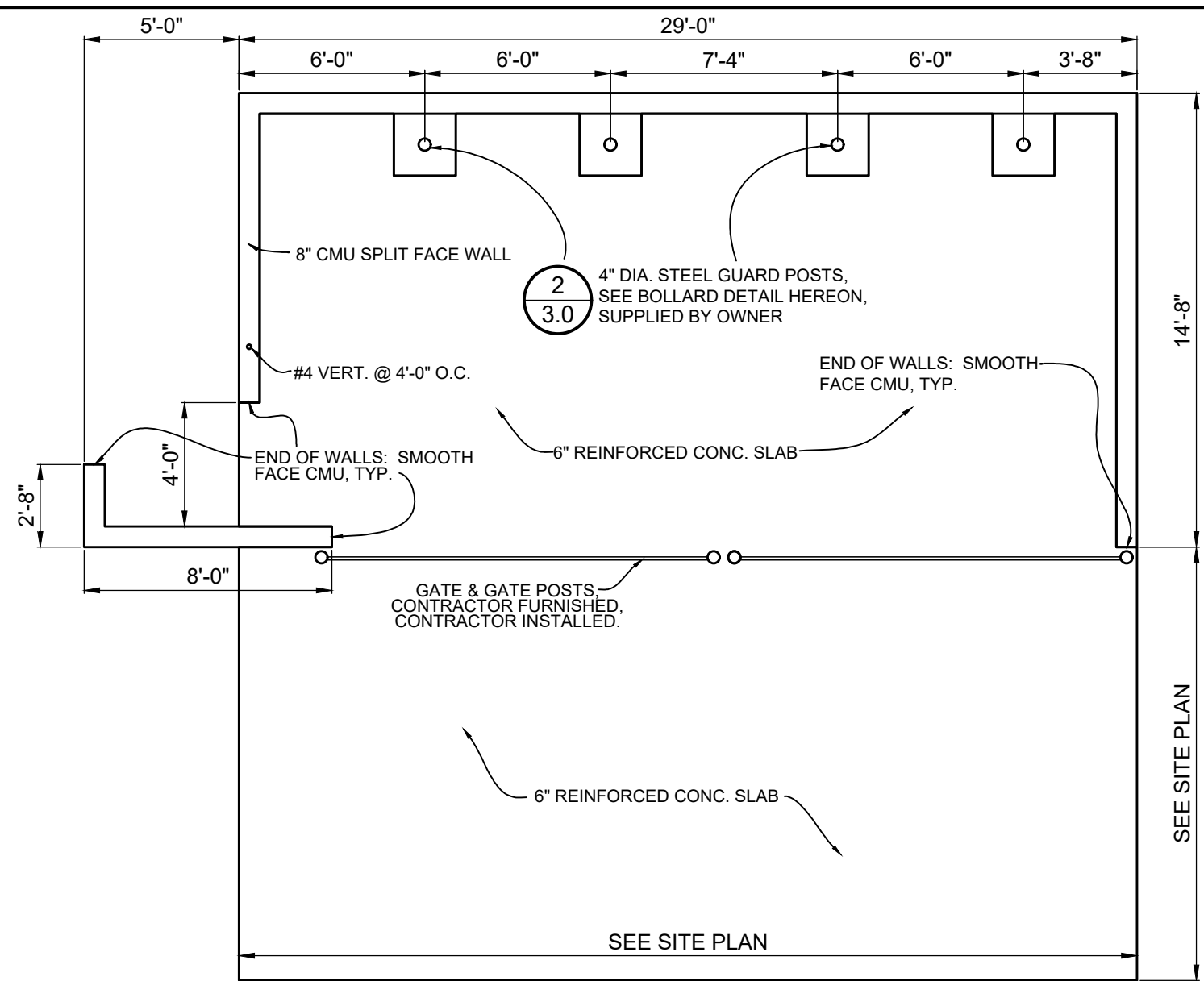
6 WASH STATION CONC. PAD
3.0 N.T.S.



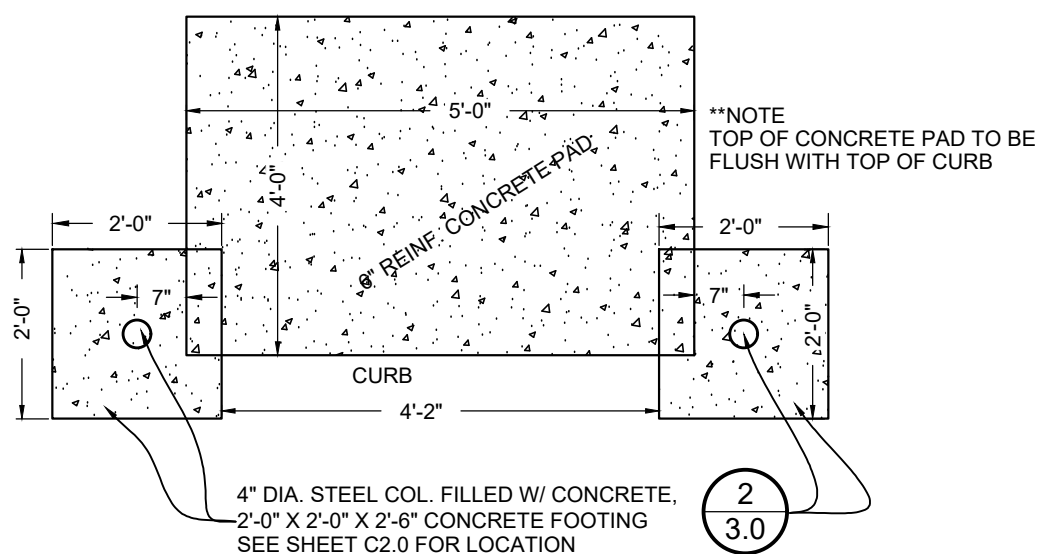
7 LP CAGE DETAIL
3.0 N.T.S.



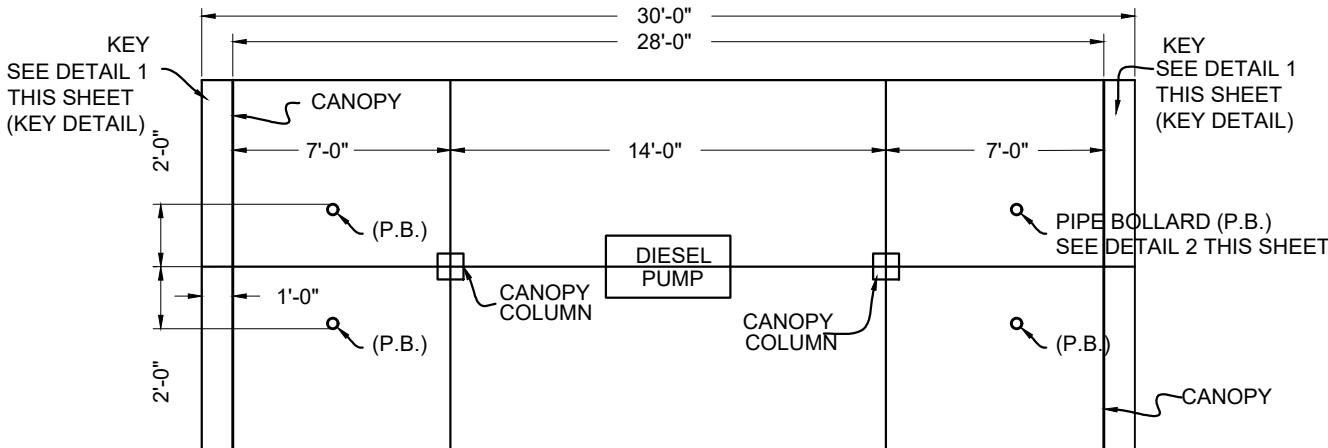
8 LIGHT POLE BASE DETAIL
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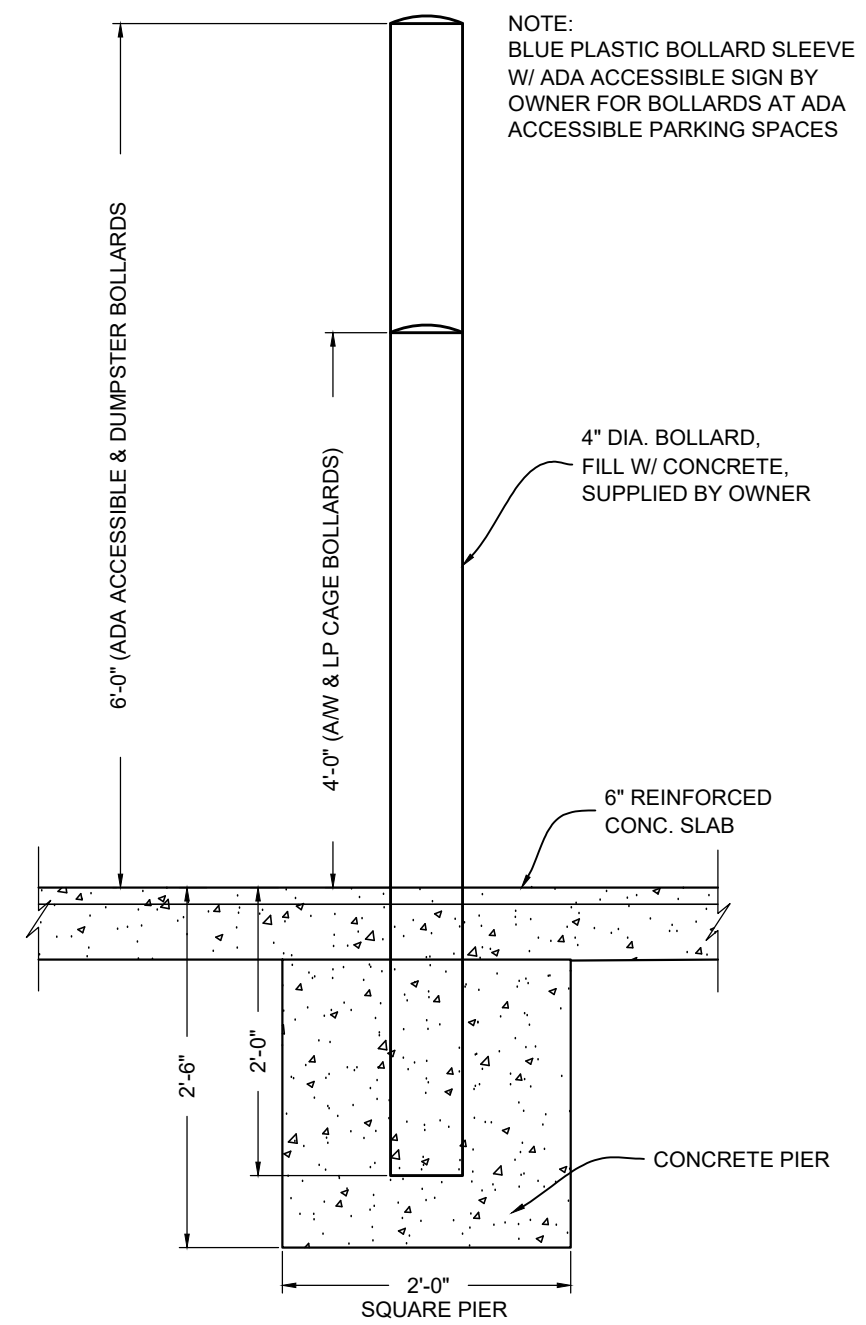
9 DUMPSTER DETAIL
3.0 N.T.S.



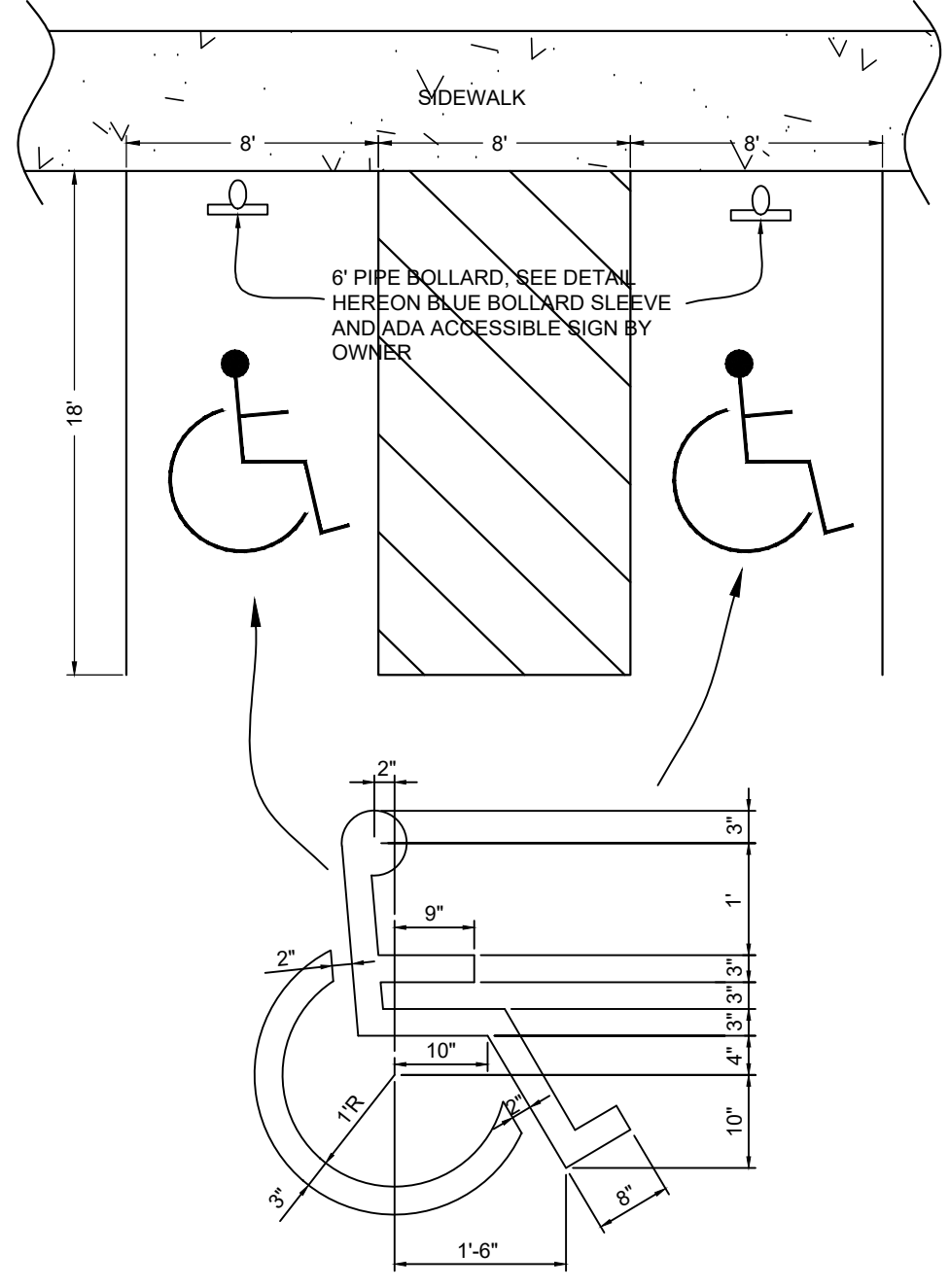
4 AIR STAND CONC. PAD
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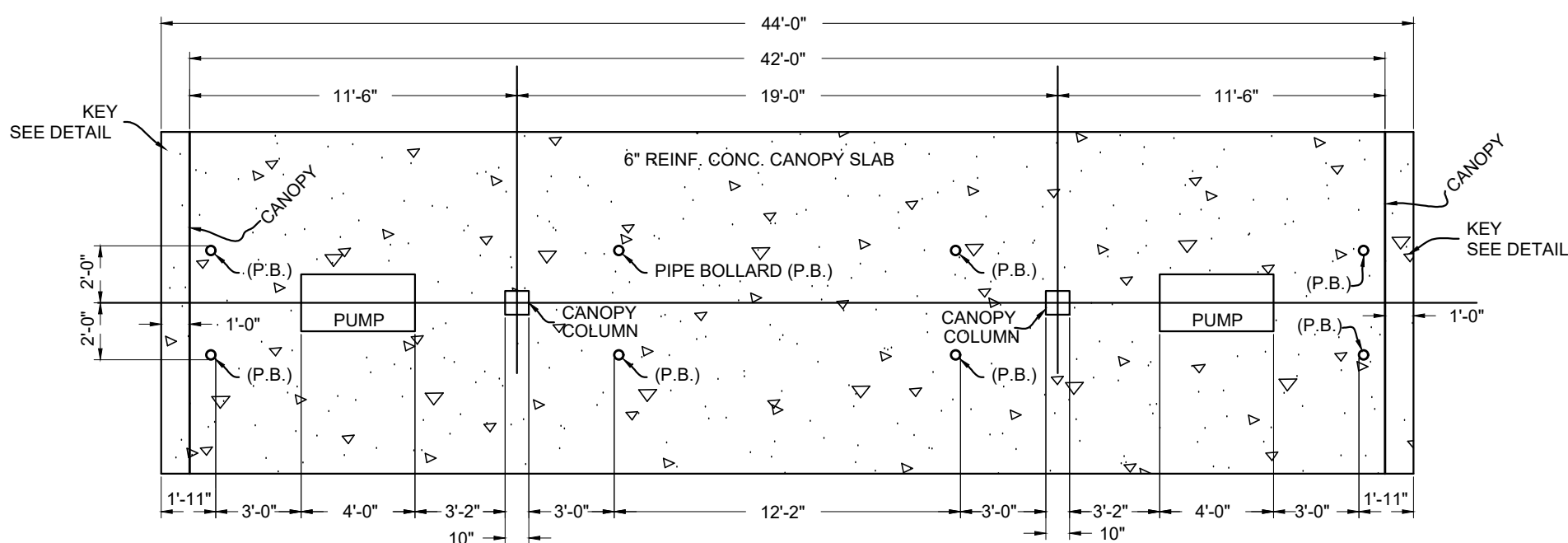
5 DIESEL PUMP ISLAND PLAN SECTION
3.0 N.T.S.



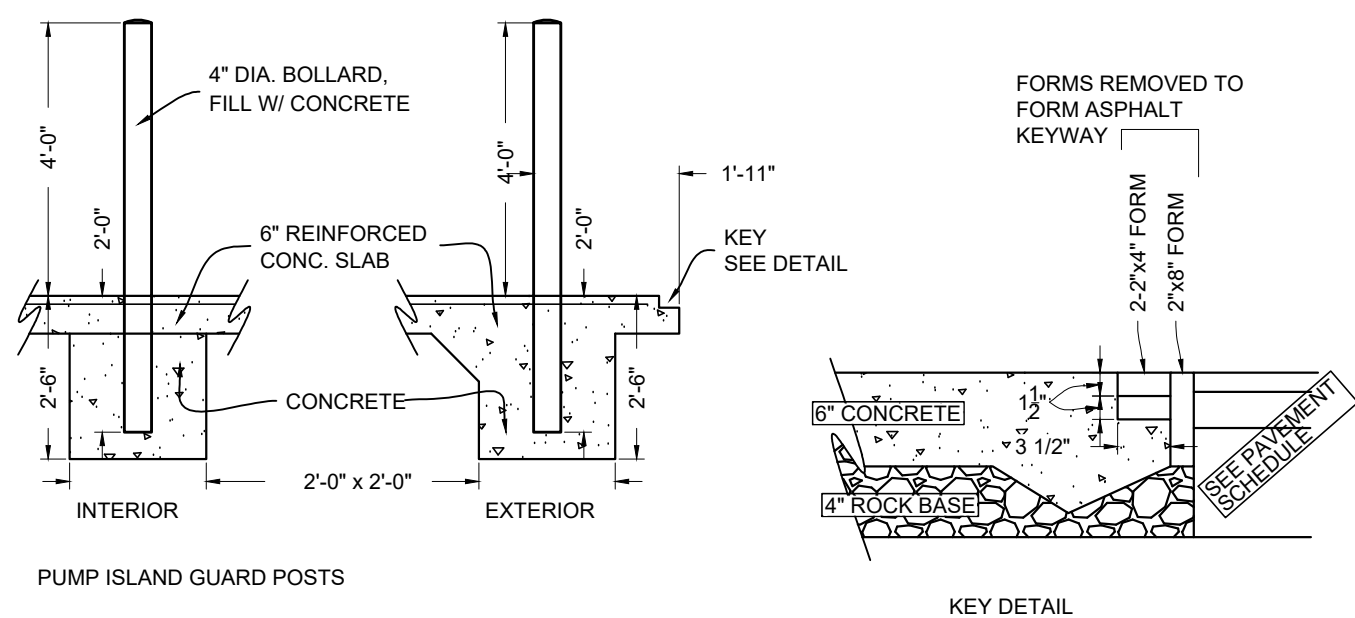
2 PIPE BOLLARD DETAIL
3.0 N.T.S.



3 ADA ACCESSIBLE SPACE DETAIL
3.0 N.T.S.



1 PUMP ISLAND PLAN SECTION
3.0 N.T.S.



KEY DETAIL



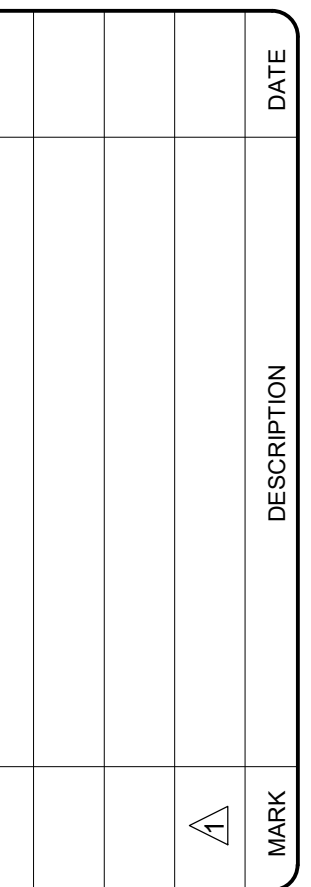
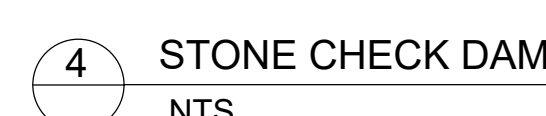
DATE	DESCRIPTION	MARK

KENNER RANDOLPH
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150 SOUTH BREATHT STREET
RUSSELLVILLE, KY 42276
270-717-1131

ENGINEER: BSR	CKD BY: CRK	FINAL SURVEY DATE: 6/27/23	CRD FILE: 2306021E
CLIENT ADDRESS: NEWCOMB OIL 961 WITHROW COURT BARDSTOWN, KY 40004	PROPERTY ADDRESS: U.S. HIGHWAY #41 HOPKINSVILLE, KY 42240	PLOT DATE: 5/29/2024	FILE NAME: 2306021E

DETAILS
FIVESTAR
U.S. HIGHWAY #41
HOPKINSVILLE, KY 42240

SHEET
IDENTIFICATION
C3.0

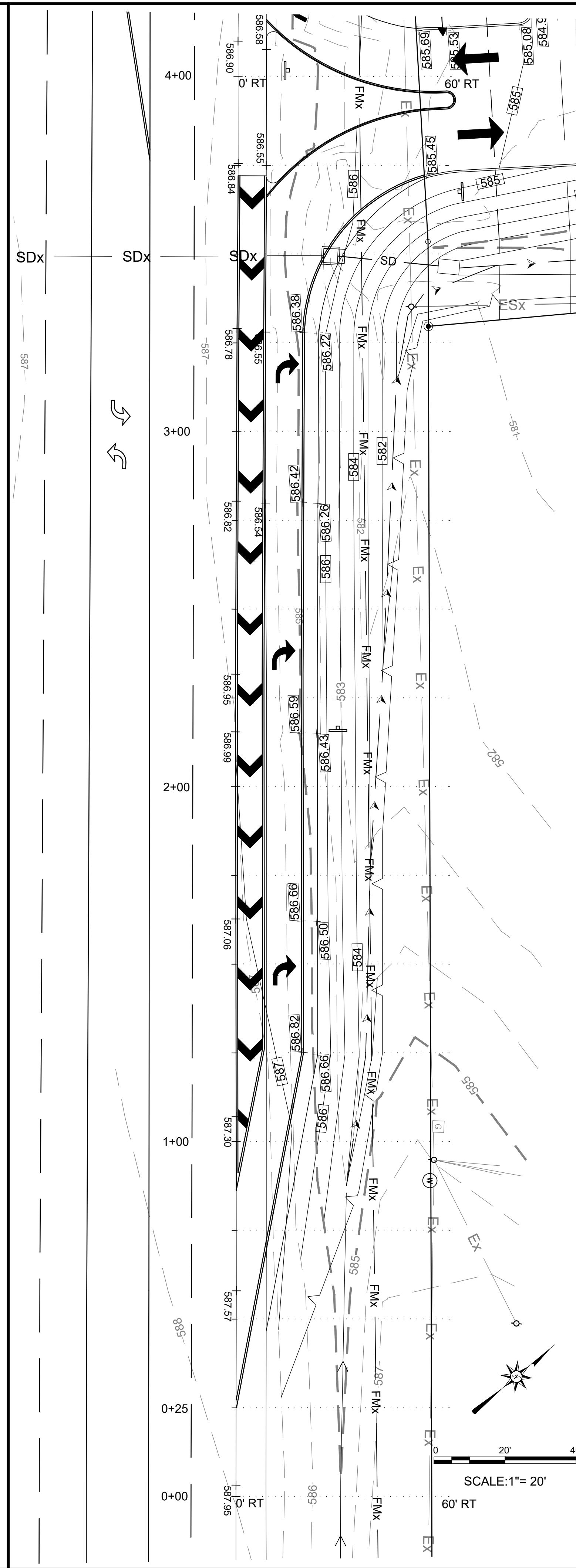
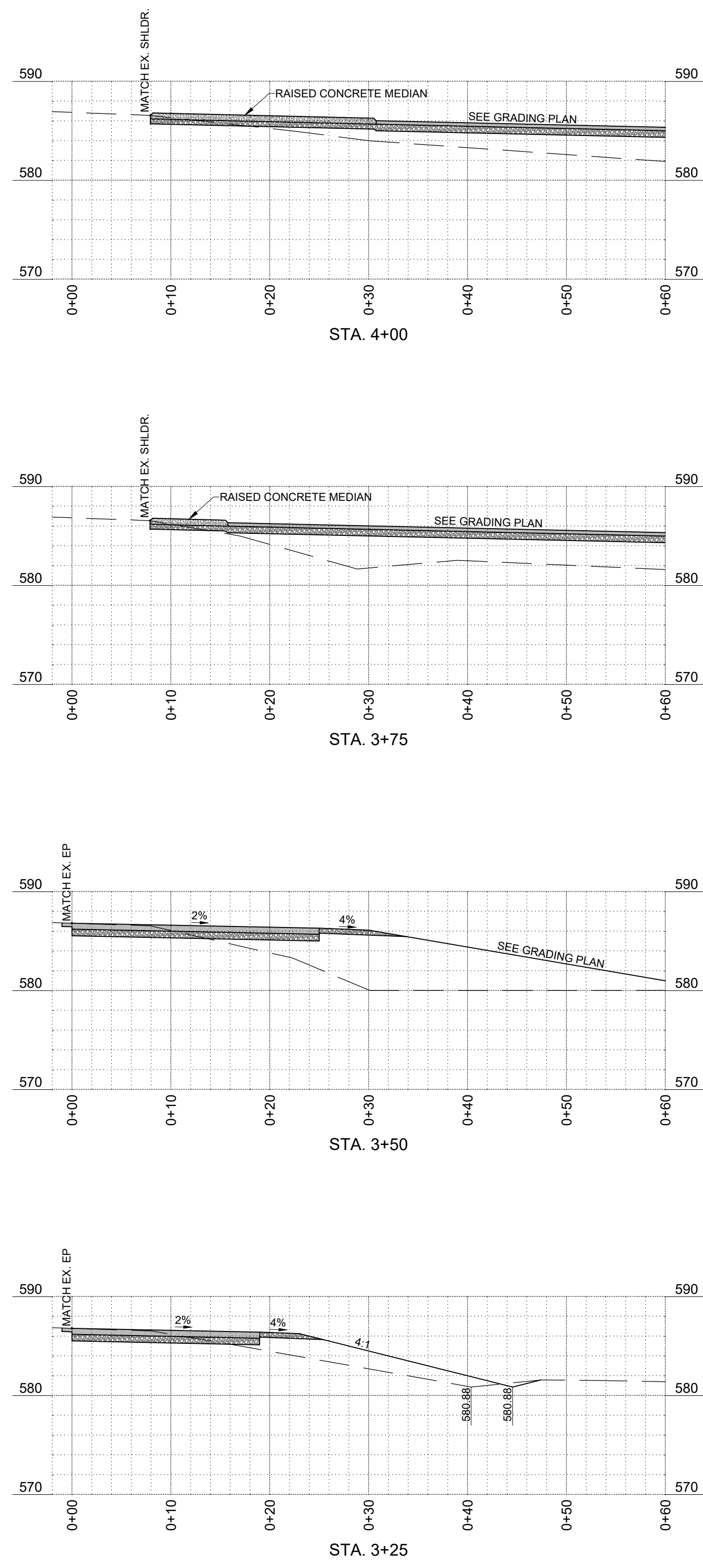
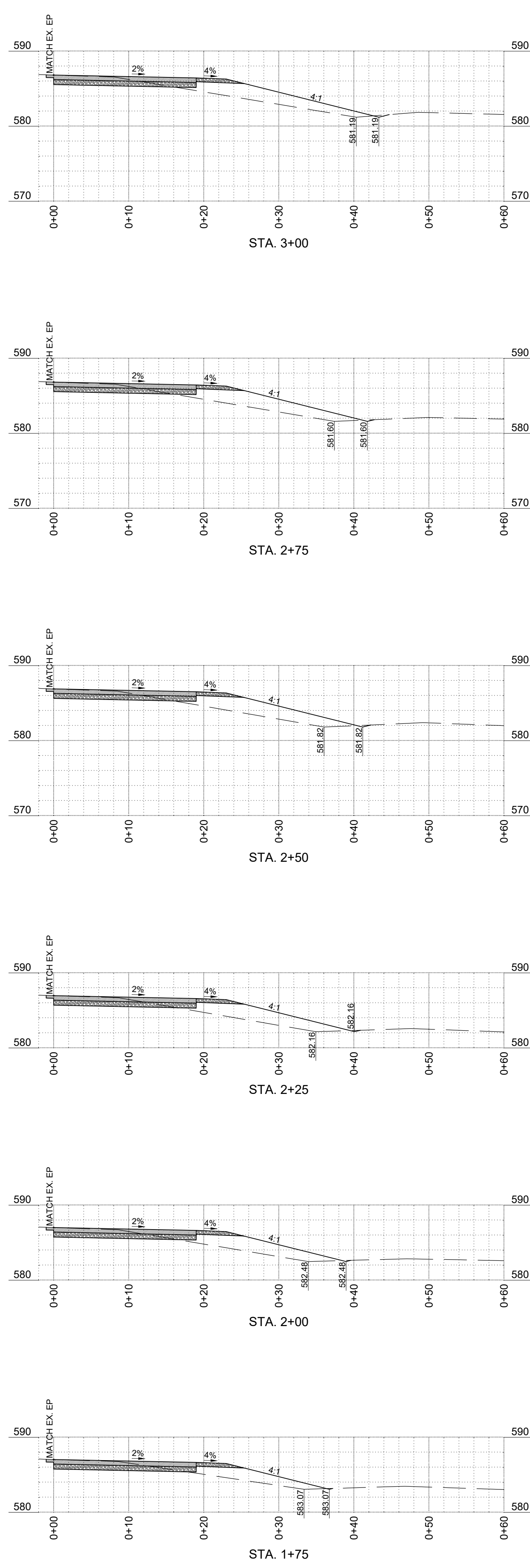


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RUSSELLVILLE, KY 42276
270-717-1131

CLIENT ADDRESS: NEWCOMB OIL 951 WITHROW COURT BARDSTOWN, KY 40004	FINAL SURVEY DATE:	6/27/23	PLOT DATE:	CRD FILE:	2306021E
	DWN BY: BSR	CKD BY: BSR	SIZES: 24X36	FILE NAME:	2306021E

DETAILS
FIVESTAR
U.S. HIGHWAY #41
HOPKINSVILLE, KY 42240

SHEET
IDENTIFICATION
C3.1

[illegible]

**KENNER RANDOLPH
ENGINEERING & SURVEYING**
150 SOUTH BREATHITT STREET
RUSSELLVILLE, KY 42276
270-717-1131

ENGINEER:	CLIENT ADDRESS:	PROPERTY ADDRESS:
BSR	NEWCOMB OIL	
DWN BY:	951 WITTHROW COURT	PLOT DATE: 5/29/2024
BSR	BARDS TOWN, KY 40004	
CKD BY:		CRD FILE: 2306021E
CKR		FILE NAME: 2306021E
FINAL SURVEY DATE:		SIZE: 24X36
6/27/23		

CROSS SECTIONS
RIGHT TURN LANE
FIVESTAR
U.S. HIGHWAY #41
HOPKINSVILLE, KY 42240

SHEET IDENTIFICATION

HOPKINSVILLE - ????